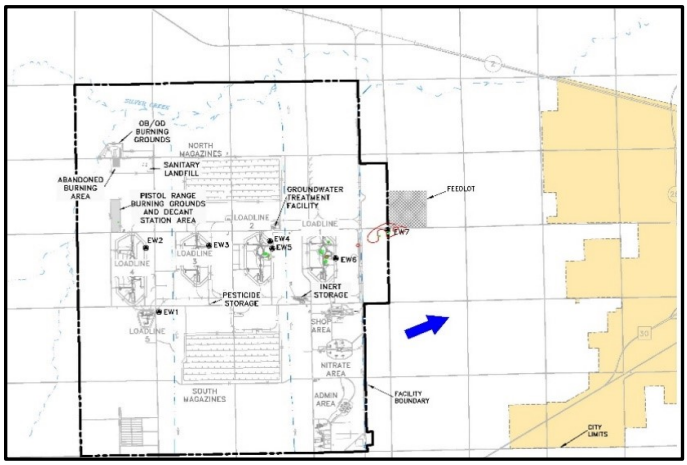
Final
February 2022

2021 ANNUAL GROUNDWATER MONITORING REPORT

REMEDIAL ACTION OPERATION GROUNDWATER TREATMENT FACILITY AT OU1 AND GROUNDWATER MONITORING AT OU1 AND OU3

Cornhusker Army Ammunition Plant
Grand Island, Nebraska









U.S. Army Corps of Engineers
Omaha District

3700 Centerpoint Drive, Suite 8223
Anchorage, Alaska 99503

12120 Shamrock Plaza, Suite 100
Omaha, Nebraska 68154

Table of Contents

Section 1 Introduction 1-1

1.1 Project Work Authority 1-1
1.2 Project Purpose and Objective 1-1
1.3 Groundwater Cleanup Goals 1-2
1.4 Summary of 2021 (January through July) Project Activities 1-2
1.5 Site Description 1-3
1.5.1 Facility Description and History 1-3
1.5.2 Load Line Areas Description and History 1-3
1.5.3 Remedial Action History 1-4
1.5.4 Topography, Surface Features, and Environmental Setting 1-6
1.5.5 Geologic Setting 1-7
1.5.6 Hydrogeologic Setting 1-7
1.5.6.1 Grand Island Formation Aquifer 1-7
1.5.6.2 Fullerton Formation Aquitard 1-8
1.5.6.3 Holdrege Formation Aquifer 1-8

Section 2 Field Activities 2-1

2.1 Summary of Field Activities 2-1
2.2 Groundwater Treatment Facility 2-1
2.3 OU1 and OU3 Annual Groundwater Long-Term Monitoring 2-1
2.3.1 Groundwater Level Measurement 2-2
2.3.2 Monitoring Well/Piezometer Purging and Water Quality Parameter Measurement 2-2
2.3.3 Groundwater Sampling 2-3
2.3.3.1 Source Water Sampling 2-3
2.3.3.2 OU1 (Groundwater Explosives Plume) Groundwater Sampling 2-3
2.3.3.3 OU3 (Shop Area) Groundwater Sampling 2-4
2.3.4 Investigation-Derived Waste Disposal Procedures 2-4
2.3.5 Field Documentation, Sample Identification, Sample Handling, and Shipping 2-5
2.3.6 Reporting 2-6
2.3.6.1 Daily Quality Control Reports 2-6
2.3.6.2 Weekly Progress Reports 2-6
2.3.6.3 Photographic Documentation 2-6
2.4 Summary of Additional Field Activities 2-6
2.4.1 OU1 Rebound Study and Subsurface Injections 2-6

Section 3 Hydrogeologic Investigation Results 3-1

3.1 Groundwater Levels 3-1
3.1.1 OU1 (Groundwater Explosives Plume) Water Level Round 3-1
3.1.2 OU3 (Shop Area) Water Level Round 3-2
3.2 Hydraulic Gradients 3-2
3.2.1 OU1 (Groundwater Explosives Plume) Hydraulic Gradients 3-2

3.2.2 OU3 (Shop Area) Hydraulic Gradients 3-3
3.3 Groundwater Flow Velocities 3-3

Section 4 Data Quality Review 4-1
4.1 Data Quality Review/Validation Process 4-1
4.2 Analytical Results Verification 4-2
4.3 Conclusions of Data and Quality Review 4-3

Section 5 Nature and Extent of Contamination and Trend Evaluation 5-1
5.1 OU1 On-Post 5-1
5.1.1 Load Line 1 Area 5-2
5.1.2 Load Line 2 Area 5-3
5.1.3 Between EW6 and EW7 5-4
5.1.4 Decant Station 5-6
5.2 OU1 Off-Post 5-6
5.3 OU3 Shop Area 5-8
5.4 OU1 Statistical Trend Evaluation 5-8
5.4.1 Program Input 5-10
5.4.2 Program Output 5-10
5.4.3 Statistical Results Summary 5-10
5.5 OU1 On-Post Water Quality Parameter Results 5-11

Section 6 Natural Attenuation Evaluation 6-1
6.1 Natural Attenuation Evaluation Methodology 6-1
6.2 Natural Attenuation Water Quality Parameter Results 6-3
6.2.1 OU1 Off-Post (Groundwater Explosives Plume) 6-3
6.2.2 OU3 (Shop Area) 6-5
6.3 Degradation Processes Identification 6-6
6.3.1 OU1 (Groundwater Explosives Plume) Degradation Processes 6-6
6.3.2 OU3 (Shop Area) Degradation Processes 6-7
6.4 Degradation Rates 6-8
6.4.1 OU1 (Groundwater Explosives Plume) Degradation Rates 6-9
6.4.2 OU3 (Shop Area 1,1,2-TCA Plume) Degradation Rates 6-9
6.5 Natural Attenuation Summaries 6-9
6.5.1 OU1 (Groundwater Explosives Plume) Natural Attenuation Summary 6-10
6.5.2 OU3 (Shop Area) Natural Attenuation Summary 6-10

Section 7 Groundwater Flow and Contaminant Fate and Transport Modeling Evaluation 7-1
7.1 Groundwater Flow Modeling 7-1
7.1.1 Groundwater Flow Modeling Approach and Methodology 7-1
7.1.2 Project Uses of the Flow Model 7-1
7.1.3 Modeling Assumptions 7-2
7.1.4 Model Setup and Input Parameters 7-2

7.1.4.1 Finite-Difference Grid 7-2
7.1.4.2 Model Boundary Conditions 7-2
7.1.4.3 Hydrogeologic Input Parameters 7-3
7.1.5 Groundwater Flow Calibrations 7-3
7.1.5.1 Calibrated Groundwater Flow Configuration 7-3
7.1.5.2 Calibration Statistics for the May 2021 Water Level Event 7-4
7.2 Groundwater Contaminant Fate and Transport Model Evaluation 7-4
7.2.1 Contaminant Fate and Transport Modeling Approach and Methods 7-5
7.2.2 Modeling Assumptions 7-6
7.2.3 Contaminant Fate and Transport Model Setup and Input Parameters 7-6
7.2.3.1 Initial Target Compound Concentrations 7-7
7.2.3.2 Residual Source Concentrations 7-7
7.2.3.3 Contaminant Transport Model Input Parameters 7-8
7.2.4 Contaminant Fate and Transport Model Calibration and Limitations 7-9
7.2.4.1 Contaminant Fate and Transport Model Calibration 7-9
7.2.4.2 Contaminant Fate and Transport Model Limitations 7-9
7.2.5 2021 Modeling Results / 2020 and 2021 Mass Comparisons 7-10
7.2.6 Long-Term Modeling Results / Mass Estimations 7-10

Section 8 Institutional Controls Review 8-1

8.1 OU1 Off-Post Groundwater Explosives Plume Institutional Controls 8-1
8.1.1 City Ordinance Institutional Control/Action 8-1
8.1.2 Water Supply Institutional Control/Action 8-2
8.1.3 Hazard Communication Institutional Control/Action 8-2
8.2 OU1 On-Post Groundwater Explosives Plume Institutional Controls 8-2
8.2.1 Deed Restrictions Institutional Control/Action 8-2
8.2.2 Hall County Zoning Plan Institutional Control/Action 8-3
8.2.3 Well Drilling Prohibition Institutional Control/Action 8-3
8.3 OU3 Shop Area Institutional Controls 8-3
8.4 Institutional Controls Review Summary 8-3

Section 9 Conclusions and Recommendations 9-1

9.1 2021 Conclusions 9-1
9.1.1 Groundwater Treatment Facility 9-1
9.1.2 OU1 and OU3 Annual Groundwater Long-Term Monitoring 9-1
9.1.2.1 OU1 On- and Off-Post 9-1
9.1.2.2 OU3 Shop Area 9-2
9.1.2.3 Monitoring Program Optimizations 9-2
9.1.3 Groundwater Modeling 9-2
9.2 2022 Recommendations 9-3

9.2.1 Groundwater Treatment Facility 9-3
9.2.2 OU1 Monitoring Well Abandonments 9-3
9.2.2.1 Proposed OU1 Monitoring Well Abandonments 9-3
9.2.3 OU1 and OU3 Annual Groundwater Long-Term Monitoring 9-4
9.2.3.1 OU1 9-4
9.2.3.2 OU3 9-4
9.2.3.3 Proposed OU1 and OU3 Groundwater Monitoring Schedule 9-4
9.2.4 Reporting 9-5

Section 10 References 10-1

List of Appendices

Appendix A Well Drilling Licenses

Appendix B Completed Field Forms (CD Only)
- OU1 and OU3 Groundwater Monitoring Sample Collection Field Sheets
- OU1 and OU3 Groundwater Monitoring DQCRs and Weekly Reports

Appendix C Photographic Log

Appendix D Analytical Data and Validation (CD Only)

Appendix E Summary of Present and Historical Analytical Results and Figures (CD Only)

Appendix F Groundwater Modeling Documentation

Appendix G OU1 Statistical Trend Evaluation Sheets (CD Only)

List of Tables

Table 2-1 OU1 On-Post Groundwater Monitoring Wells and Piezometers Sampled

Table 2-2 OU1 Off-Post Groundwater Monitoring Wells Sampled

Table 2-3 OU3 Shop Area Groundwater Monitoring Wells Sampled

Table 2-4 Field Water Quality Parameters, OU1 On-Post Monitoring Wells and Piezometers

Table 2-5 Field Water Quality Parameters, OU1 Off-Post Monitoring Wells

Table 2-6 Field Water Quality Parameter Ranges, OU1 On-Post and Off-Post Monitoring Wells and Piezometers

Table 2-7 Field Water Quality Parameters, OU3 Shop Area Monitoring Wells

Table 2-8 Summary of Explosives and VOCs Detected, IDW – Water

Table 3-1 Water Level Measurements OU1/OU3

Table 4-1a Summary of OU1 Field Duplicate Sample Pairs

Table 4-1b Summary of OU3 Field Duplicate Sample Pair

Table 5-1 Summary of Explosives Detected and Laboratory Water Quality Parameters, OU1 On-Post Monitoring Wells and Piezometers

Table 5-2 Summary of Explosives Detected and Laboratory MNA Parameters, OU1 Off-Post Monitoring Wells

Table 5-3 Frequency of Detections and Concentration Ranges for Explosives at OU1

Table 5-4 Highest Historical OU1 Off-Post Explosives Plume Concentrations

Table 5-5 Summary of VOCs and TPH-DRO Detected and Laboratory MNA Parameters, OU3 Shop Area Monitoring Wells

Table 5-6 Summary of OU1 On-Post Water Quality Parameters, Wells Outside RAO Treatment Areas

Table 5-7 Summary of OU1 On-Post Water Quality Parameters, Wells Inside RAO Treatment Areas

Table 6-1 Summary of OU1 Off-Post MNA Parameters

Table 6-2 Summary of OU3 Shop Area MNA Parameters, Wells Inside RAO Treatment Area

Table 7-1 Explosives Mass Estimations and Percent Reductions

Table 8-1 Summary of Institutional Controls: 2021 Review

Table 9-1 2022 Proposed Monitoring Well Abandonment Locations, OU1

Table 9-2 2022 Proposed Water Level Measurement Locations, OU1/OU3

Table 9-3 2022 Proposed Groundwater Sampling Locations, OU1/OU3 Monitoring Wells and Piezometers

List of Figures

Figure 1-1 Facility Location Map

Figure 1-2 Site Location Map

Figure 2-1 2021 Well Sampling Locations Map – Off-Post/On-Post (OU1)

Figure 2-2 2021 Well Sampling Locations Map – Shop Area (OU3)

Figure 3-1 Water Table Elevation Map – May 2021

Figure 3-2 Groundwater Elevation Trends in Selected Shallow Monitoring Wells, March 2000 to May 2021

Figure 5-1 2021 Extent of Explosives Plume and Subsurface Injection Locations, Load Line 1, Load Line 2, and Between EW6 and EW7 (OU1)

Figure 5-2 2021 Extent of Explosives Plume and Subsurface Injection Locations, Decant Station (OU1)

Figure 5-3 On-Post Explosives Concentrations (OU1) – May/June 2021

Figure 5-4 Off-Post Explosives Concentrations (OU1) – May/June 2021

Figure 5-5 VOC Concentrations – Shop Area (OU3) May 2021

Figure 5-6 Mann-Kendall Analysis for TNT and RDX, Former Facility Boundary Wells (OU1)

Figure 5-7 Mann-Kendall Analysis for TNT and RDX, Upgradient Wells (OU1)

Figure 6-1a Shallow Groundwater Laboratory Natural Attenuation Parameters (OU1) – May/June 2021

Figure 6-1b Shallow-Intermediate Groundwater Laboratory Natural Attenuation Parameters (OU1) – May/June 2021

Figure 6-1c Intermediate Groundwater Laboratory Natural Attenuation Parameters (OU1) – May/June 2021

Figure 6-1d Deep Groundwater Laboratory Natural Attenuation Parameters (OU1) – May/June 2021

Figure 6-2 Shallow Groundwater Laboratory Natural Attenuation Parameters – Shop Area (OU3) May 2021

Figure 9-1 Proposed 2022 Well Sampling and Abandonment Locations Map, Off-Post/On-Post (OU1)

Figure 9-2 Proposed 2022 Well Sampling Locations Map, Shop Area (OU3)

Acronyms and Abbreviations

<	less than
>	greater than
±	plus or minus
°C	degrees Celsius
µg/L	micrograms per liter
%	Percent
1,1,2-TCA	1,1,2-trichloroethane
1,2-DCA	1,2-dichloroethane
2-Am-DNT	2-amino-4,6-dinitrotoluene
4-Am-DNT	4-amino-2,6-dinitrotoluene
AECOM	AECOM Technical Services
AFCEC	Air Force Civil Engineer Center
bgs	below ground surface
Brice	Brice Engineering, LLC
BW–URS	Bay West and URS Group Inc.
CCV	continuing calibration verification
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CHAAP	Cornhusker Army Ammunition Plant
CO_2	carbon dioxide
CoC	chain of custody
CPNRD	Central Platte Natural Resources District
DI	Deionized
DNX	di-nitroso-RDX
DO	dissolved oxygen
DOC	dissolved organic carbon
DQCR	Daily Quality Control Report
EW	extraction well
Fe^{2+}	ferrous iron
Fe^{3+}	ferric iron

Freon® 113	1,1,2-trichloro-1,2,2-trifluoroethane
ft/ft	foot per foot or feet per foot
GAC	granular activated carbon
GHB	general head boundary
gpm	gallons per minute
GWTF	groundwater treatment facility
HAL	Health Advisory Level
HE	high explosives
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID	identification; inner diameter
IDW	investigation-derived waste
J	estimated qualifier
LCS	laboratory control sample
LOQ	level of quantitation
LL	load line
lpm	liters per minute
LTM	long-term monitoring
MAROS	Monitoring and Remediation Optimization System
MCL	Maximum Contaminant Level
MEC	munitions and explosives of concern
MEK	2-butanone
mg/L	milligrams per liter
MKM	MKM Engineers, Inc.
mm	millimeter
MNA	monitored natural attenuation
MNX	mono-nitroso-RDX
MODFLOW	Modular Three-Dimensional Finite-Difference Groundwater Flow Model
MODPATH	MODFLOW Particle-tracking Model
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
MT3DMS	Modular Transport, 3-dimensional, Multi-species Model

mV	millivolts
No.	number
NDEE	Nebraska Department of Environment and Energy
NDEQ	Nebraska Department of Environmental Quality
NEDNR	Nebraska Department of Natural Resources
NPDES	National Pollutant Discharge Elimination System
O&M	operations and maintenance
ORP	oxidation/reduction potential
OSWER	Office of Solid Waste and Emergency Response
OU	Operable Unit
PIKA	PIKA Inc.
PVC	polyvinyl chloride
QC	quality control
RAO	remedial action operation
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
ROD	Record of Decision
RPD	relative percent difference
RSK-175	Robert S. Kerr Environmental Research Laboratory Method 175
SCFS	sample collection field sheet
SM	standard method
SOP	standard operating procedure
TKN	total Kjeldahl nitrogen
TNT	2,4,6-trinitrotoluene
TNX	tri-nitroso-RDX
TPH-DRO	total petroleum hydrocarbon-diesel range organics
U	nondetect qualifier
U.S.	United States
UFP-QAPP	Uniform Federal Policy–Quality Assurance Project Plan
UJ	estimated nondetect qualifier
URS	URS Group, Inc.
URSGWCFS	URS Greiner Woodward-Clyde Federal Services

USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Center
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USGS	United States Geologic Survey
VMODFLOW	Visual MODFLOW
VOC	volatile organic compound
W-C	Woodward-Clyde
WES	Waterways Experiment Station
WJE	Watkins-Johnson Environmental, Inc.

1.1 PROJECT WORK AUTHORITY

The United States (U.S.) Army Corps of Engineers (USACE) has contracted Brice Engineering, LLC (Brice) and AECOM Technical Services (AECOM) to complete the Remedial Action Operation (RAO) of the Groundwater Treatment Facility (GWTF) at Operable Unit (OU) 1 and Groundwater Monitoring at OU1 (groundwater explosives plume) and OU3 (volatile organic compound [VOC] plume at the Shop Area) at the Cornhusker Army Ammunition Plant (CHAAP) near Grand Island, Nebraska. Work for this assignment is being performed under Brice's Contract Number W9128F-18-D-0020, Delivery Order F0041.

1.2 PROJECT PURPOSE AND OBJECTIVE

The project purpose is to complete objectives as stated in the USACE Performance Work Statement dated November 16, 2018. Objectives of the RAO GWTF at OU1 and Groundwater Monitoring at OU1 and OU3 project include operation and maintenance of the groundwater extraction/collection/treatment system at the GWTF for the groundwater explosives plume (OU1) and continued annual groundwater monitoring (long-term monitoring [LTM]) at OU1 and OU3. Additional objectives options currently implemented for the project include completion of an OU1 Rebound Study and additional OU1 subsurface injections with performance monitoring. The work is being completed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) with regulatory oversight from the U.S. Environmental Protection Agency (USEPA) Region 7 and the Nebraska Department of Environment and Energy (NDEE).

The purpose of this Annual Report is to evaluate the performance of the OU1 / OU3 remedies in accordance with the OU1 Record of Decision (ROD) (U.S. Army Environmental Center [USAEC] 1994), the subsequent OU1 ROD Amendment (URS Greiner Woodward-Clyde Federal Services [URSGWCFS] 2001b), and the OU3 ROD (USACE 1999). The selected remedies in place at CHAAP include:

- Extraction and treatment from OU1 on-post explosives contaminated groundwater
- Monitored natural attenuation (MNA) of the OU1 off-post explosives plume and the OU3 Shop Area 1,1,2-trichloroethane (1,1,2-TCA) plume
- Institutional controls/actions designed to prevent drinking water exposure to contaminated groundwater at OU1/OU3

In addition to the evaluation of the OU1/OU3 remedies, this Annual Report summarizes additional activities that occurred at OU1/OU3 from January through July 2021 including:

- OU1 Rebound Study and subsurface injection performance monitoring

1.3 GROUNDWATER CLEANUP GOALS

Health Advisory Levels (HALs) for explosives compounds hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), 2,4,6-trinitrotoluene (TNT), and octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) were established as cleanup goals for CHAAP in the OU1 ROD (USAEC 1994) and the subsequent OU1 ROD Amendment (URSGWCFS 2001b). Federal Maximum Contaminant Levels (MCLs) were established as cleanup goals for 1,1,2-TCA and 1,2-dichloroethane (1,2-DCA) in the OU3 ROD (USACE 1999). Chemical data collected for the OU1 RAO at the GWTF are compared to established CHAAP National Pollutant Discharge Elimination System (NPDES) Permit discharge limits (Nebraska Department of Environmental Quality [NDEQ] 2004) and the USEPA HALs for drinking water, per the CHAAP OU1 ROD Amendment. Chemical data collected at OU1/OU3 are compared to the CHAAP cleanup goals (USEPA HALs and MCLs for drinking water), per the CHAAP OU1 ROD Amendment, the OU3 ROD, and the additional screening levels (USEPA Regional Screening Levels for Tapwater) as listed in the Final Uniform Federal Policy–Quality Assurance Project Plan (UFP-QAPP) (BW-URS 2014b).

RDX, TNT, and HMX were selected for the OU1 chemicals of concern because of their historic use, frequency of occurrence, magnitude of detected concentrations, and potential adverse health effects. HMX has never been detected at concentrations above the HAL.1,2-DCA and 1,1,2-TCA were selected for the OU3 chemicals of concern because of the historic concentrations reported at the Shop Area exceeding the MCLs established in 40 Code of Federal Regulations (CFR) 141, Subpart G (CFR 2012) for these compounds. Total petroleum hydrocarbon-diesel range organics (TPH-DRO) is also analyzed for at select OU3 wells because of a historical diesel release at the Shop Area. No HAL or MCL has been established for TPH-DRO; however, concentrations are compared to the Nebraska risk-based concentration (10 milligrams per liter [mg/L]) for groundwater as presented in the Risk-Based Corrective Action at Petroleum Release Sites, Tier 1/Tier 2 Assessments and Reports (NDEQ 2009).

OU1 HALs:

- 2 micrograms per liter (µg/L) for RDX and TNT
- 400 µg/L for HMX

OU3 MCLs:

- 5 µg/L for 1,1,2-TCA and 1,2-DCA

1.4 SUMMARY OF 2021 (JANUARY THROUGH JULY) PROJECT ACTIVITIES

- Maintained GWTF in stand-by condition and performed routine Operations and Maintenance (O&M) activities following shutdown in October 2019
- Conducted two sampling events associated with the OU1 Rebound Study and subsurface injection performance monitoring
- Conducted OU1/OU3 annual groundwater LTM sampling event

1.5 SITE DESCRIPTION

1.5.1 Facility Description and History

CHAAP is located on an 11,936-acre tract approximately 2 miles west of Grand Island, Nebraska (**Figure 1-1**). CHAAP was constructed and became fully operational in 1942 as a U.S. government-owned, contractor-operated facility.

CHAAP, shown on **Figure 1-2**, includes five former load lines (LL), LL1 through LL5 (see **Section 1.5.2**). Other former sites include the Administration Base Housing Area, two Magazine Areas, the Fuze Line, storage and dock facilities, Shop Area, Nitrate Area, CHAAP-05 Open Burning/Open Detonation Burning Grounds, Abandoned Burning Area, Sanitary Landfill, and Pistol Range Burning Grounds/Decant Station Area.

Currently, activities at CHAAP are limited to groundwater remediation activities at the GWTF; leasing property for agriculture; leasing buildings for storage and limited manufacturing; wildlife management; and minor maintenance of the grounds, roads, and leased facilities. The majority of CHAAP property has been transferred to the public over the past 10 to 15 years. According to the Hall County/Grand Island Geographic Information System (GIS) Viewer Interactive Map (Hall County 2021), no property transfers occurred from January to September 2021.

The area surrounding CHAAP is primarily rural and agricultural, with the City of Grand Island (population approximately 50,000) directly east of the plant.

1.5.2 Load Line Areas Description and History

LL1, LL2, LL3, and LL4 were primarily used as load, assemble, and pack facilities, and LL5 produced micro-gravel mines. LL1 through LL5 are shown on **Figure 1-2**. Production at CHAAP began with the pouring of the first 1,000-pound bomb at LL3 on November 11, 1942. Loading operations ceased on August 14, 1945, after production of 330,562 1,000-pound bombs; 20,698 2,000-pound bombs; 6,951,205 90-pound and 1,506,373 50-pound fragmentation bombs; 11,476,545 105-millimeter (mm) projectiles; 677,380 boosters; and 6,234,850 supplementary charges.

During the period from September 1945 to February 1950, the plant was declared surplus and then placed in standby status under the control of the Ordnance Corps, U.S. Army. Use of the buildings was primarily for grain storage, except for the Nitrate Area, which was used to manufacture fertilizer until April 1948.

In April 1950, CHAAP again became an active installation with the rehabilitation of LL1 and applicable operations for the production of 3.5-inch high explosive (HE) rockets. In December 1950, LL2, LL3, and LL4; the Fuze Line; storage and dock facilities; the administration area; and all appurtenant utilities were rehabilitated. LL1 began production in January 1951 when the first high explosives (HE) rocket warheads were poured at the plant. These warheads were then combined with pre-assembled, pre-loaded rocket motors that were delivered to the plant as motor

units. Production totals for the period between 1951 and 1954 were: 21,413,244 HE anti-tank and practice 3.5-inch rockets; 1,162,828 HE 4.5-inch rockets; 14,000,000 M404A1 and A2 fuzes; and 1,253,499 155mm HE projectiles. In January 1966, production of bombs began and, in 1967, the production of a new end product, the Micro-Gravel Mine XM45, began at LL5. The plant was laid away in 1974 but maintained in a high state of readiness until January 1989 when the plant was declared in excess.

1.5.3 Remedial Action History

From 1987 to 1988, the U.S. Army completed an incineration project designed to excavate and treat soils beneath the unlined leach pits and cesspools at the CHAAP load lines. The purpose of the project was to remove the soil sources of explosives contamination. The project reduced the explosives contamination at these source areas; however, explosives concentrations remained above action levels at 29 of the 58 excavation locations due to excavations terminating at or just below the water table. Excavations were completed between 10 and 15 feet below ground surface (bgs), and in some cases excavations extended up to 5 feet below the water table. Because action levels were not achieved at all excavation locations, some may represent continuous source areas.

An on-post groundwater extraction and treatment system was constructed in the summer of 1998, and full-time operation began in December 1998. The groundwater extraction system included extraction well (EW) 1 through EW6, with a total extraction rate of 750 gallons per minute (gpm). Based on the recommendations of the OU1 ROD Amendment (URSGWCFS 2001b), an additional extraction well (EW7) was installed in March 2000. Additionally, pumping at EW1, EW2, and EW3 was discontinued in 2000 due to nondetection of explosive compounds; however, the overall flow rate to the GWTF was maintained at 750 gpm with EW7 operational. The GWTF treats groundwater for explosives using granular activated carbon (GAC) absorption technology for treatment, and then discharges the treated water to the two on-post drainage canals leading to Silver Creek. The most recent NPDES Permit for CHAAP requires semiannual sampling of the GWTF. Current practice is to sample the GWTF quarterly in the interest of acquiring more frequent data that documents GAC performance and compliance with treatment standards.

The ROD Amendment also included the implementation of MNA for the off-post distal plume. The MNA alternative replaced off-post extraction and treatment originally planned for the distal plume. The LTM program and MNA details are presented in annual reports, most recently the Final 2020 Annual Groundwater Monitoring and Subsurface Injection Report (Brice-AECOM 2021b).

Between 2000 and 2005, thermal decomposition, demolition, and 5X certification of LL1, LL2, LL3, and LL5 were completed by MKM Engineers, Inc. (MKM) (2004, 2005a, 2005b). Thermal decomposition, demolition, and 5X certification of LL4 were completed by PIKA Inc. (PIKA) (formerly MKM) in 2006 (PIKA 2007). 5X certification is defined as the decontamination of property, facilities, equipment, and soils so that they are free of any explosives hazards and can be released for general use or to the general public (MKM 2004). Thermal decomposition and demolition activities included burning and removal of all buildings and their floor slabs; however, concrete foundations and footers were left in place. MKM/PIKA sampled soils underneath the load

line floor slabs for explosives, performed electromagnetic geophysical investigations, and completed munitions and explosives of concern (MEC) clearance.

Soils were sampled as part of the 5X certification process to determine if explosives concentrations were greater than (>) 10 percent by weight. Soils with explosives concentrations >10 percent by weight were mixed with adjacent clean soils until explosives concentrations were less than (<) 10 percent. Explosives-contaminated soil investigations and soil excavations at LL1, LL2, and LL3 were completed in 2006 and at LL4 in 2007. Soil with explosives concentrations above the CHAAP industrial risk soil remediation levels was excavated and disposed at an approved off-site disposal facility. The CHAAP industrial risk soil remediation levels were determined and described in the CHAAP OU3 and OU4 RODs. All property within the fenced areas at LL1, LL2, LL3, LL4, and LL5 has been 5X certified; therefore, MEC support and 5X certification activities are not required during on-post intrusive field activity.

Under the direction of USACE, the OU1 RAO subsurface injection project began in the spring of 2007 and was performed through 2016; and again in 2019 and 2020. The purpose of the project is to enhance anaerobic in situ bioremediation processes and cometabolically degrade RDX and TNT at the primary source areas near EW1, EW4, EW5, and EW6; and residual concentrations near EW7 (in 2019 and 2020). Subsurface injection project results and recommendations have been submitted annually in the subsurface injection annual reports (2007 through 2016) and in OU1 Rebound Study Letter Reports for 2019 and 2020. The most recent injections (2020) are included in the Final OU1 Rebound Study Letter Report – Quarter 4 Event (Brice-AECOM 2021a).

Based on the explosive mass reduction trends and model-predicted results from 2007 to 2009, it was determined that additional injection activities would be beneficial within the load line source areas in LL1 and LL2. As a result, pumping was reduced and eventually discontinued at EW4, EW5, and EW6 to allow source treatment via subsurface injection. To maintain hydraulic control and plume capture at the former CHAAP boundary, the pumping rate at EW7 was increased to 500 gpm and remained at or near that pumping rate from July 2009 until November 2015, when the pumping rate was reduced to 450 gpm. This reduction in pumping rate was recommended in the Final 2014 Annual Groundwater Monitoring and Subsurface Injection Report (BW-URS 2015) based on groundwater modeling that demonstrated a decreased pumping rate was appropriate and will continue to provide hydraulic control of the on-post plume, based on the reduction in plume size/width since the initiation of subsurface injections. Groundwater modeling results and the recommendation to reduce the pumping rate to 300 gpm were included in the Final 2016 Annual Groundwater Monitoring and Subsurface Injection Report (BW-URS 2017b). The flow rate at EW7 was reduced to 300 gpm following USEPA and NDEE approval of that report in November 2017. In October 2019, the EW7 pumping was temporarily discontinued (set to 0 gpm) and the GWTF was winterized and will be maintained in a "standby" status initiated during the OU1 Rebound Study (approximately 2-year duration) with additional OU1 subsurface injection activities. Details of the OU1 Rebound Study are provided in the OU1 Rebound Study Work Plan (Brice-AECOM 2019a).

Recent groundwater monitoring and subsequent statistical analysis have shown explosives concentrations near the former facility boundary between EW6 and EW7 have significantly

declined based on comparison to historical concentrations over the past 23 years. Additionally, numerical groundwater modeling predictions have indicated that operation of EW7 is not needed to prevent the on-post plumes from migrating downgradient. Based on these results, in October 2019, an OU1 Rebound Study was initiated, which included temporary discontinuation of EW7 and GWTF and completion of on-post subsurface injections (voluntary action) to expedite OU1 remediation and reduce cleanup timeframes while continuing to meet cleanup objectives and goals. The OU1 Rebound Study and subsurface injection performance monitoring will establish a sufficient data set to initiate further identified Decision Points and Contingency Actions (i.e., groundwater extraction is no longer needed, groundwater extraction should be resumed, alternative actions) as presented in the Final Addendum 3, UFP-QAPP (OU1 Rebound Study Work Plan) (Brice-AECOM 2019a). Eight total groundwater sampling events (one baseline and seven quarterly events) at approximate quarterly frequency will be completed to closely monitor potential migration of the RDX and TNT plumes and to document any increases/decreases in explosives concentrations in groundwater.

Additional RAO activities have been completed at the Decant Station, just north of LL4. The Decant Station was primarily used for decanting explosives-contaminated 1,1,2-trichloro-1,2,2-trifluoroethane (Freon® 113) through cotton filters into clean receiving drums. Spills or leaks during storage and/or filtering were likely to have caused the explosives contamination at the Decant Station. Under the direction of USACE, subsurface injection activities were performed in 2006 (pilot study), 2007, 2010, 2012, 2014; and following June 2020 OU1 LTM results, were performed again in October-November 2020. Groundwater investigations were performed in 2009, 2010, and 2012. The 2012 investigation results and subsurface injection summary were presented in the 2012 Decant Station Groundwater Investigation and Additional Subsurface Injection Final Letter Report (BW-URS 2013). All Decant Station groundwater monitoring is included in the OU1 groundwater LTM program. The groundwater LTM program and MNA details are presented in the annual reports.

1.5.4 Topography, Surface Features, and Environmental Setting

CHAAP is situated within the alluvial plain of the Platte River basin. Most of the ground surface within the OU1 RAO Load Line Treatment Areas is relatively flat, with an elevation range from about 1,895 feet above mean sea level (msl) (at the northeast corner of LL1) to 1,917 feet above msl (at the southwest corner of LL4). Silver Creek drains a small area on the west and north sides of the facility. Large drainage ditches on the east side of LL1 and LL2 flow from south to north and drain surface water to Silver Creek. Groundwater flow direction is generally toward the northeast within the OU1 RAO Load Line Treatment Areas (see **Section 3.2**).

At LL1 through LL5, few site features remain that are related to former site activities, with the exceptions of asphalt and gravel access roads and extraction well buildings associated with the groundwater extraction system (i.e., EW1 through EW6). Load line properties have been sold to the public and redeveloped, including the removal of former site features, modification to existing utility configurations, and conversion to strictly agricultural cropland. Only LL3, purchased by Hornady Manufacturing, has been developed to support manufacturing, research and development, and storage processes, which included the construction of multiple buildings, utility modifications

(i.e., electric, natural gas, and supply water), and fencing/access restrictions. Additionally, multiple irrigation wells and center pivot systems have been installed on the agricultural cropland where fertilizer applications are likely conducted. Where undeveloped, the load lines support a grass-dominated vegetation community with minimal trees and shrubs.

1.5.5 Geologic Setting

The general geology summarized here was interpreted from soil boring logs completed during the installation of on- and off-post monitoring wells (Watkins-Johnson Environmental, Inc. [WJE] 1993, Woodward-Clyde [W-C] 1999) as well as regional data from the Soil Survey for Hall County (U.S. Department of Agriculture [USDA] 2004). In general, the geologic units underlying the CHAAP study area include (in descending order from the surface) the following:

- Alluvial silty clay and topsoil near the ground surface (from ground surface to about 5 feet bgs).
- Alluvial sands and gravels of the Grand Island Formation (approximately 50 to 60 feet thick).
- A low-permeability, alluvial silty clay unit of the Fullerton Formation (approximately 5 to 15 feet thick) (also referred to as the "blue clay" unit in previous reports [WJE 1993]).
- Alluvial sands and gravels of the Holdrege Formation (reported to be up to 200 feet thick).

These geologic units are laterally extensive across the CHAAP facility.

1.5.6 Hydrogeologic Setting

The following sections summarize the hydrogeologic setting at CHAAP.

1.5.6.1 Grand Island Formation Aquifer

Shallow groundwater underlying CHAAP occurs as an unconfined water table aquifer within the alluvial sands and gravels of the Grand Island Formation. In 2021, the total saturated thickness of the water table aquifer in the OU1 RAO Load Line Treatment Areas averaged about 41 to 51 feet. Hydraulic conductivity values average 300 to 400 feet per day (URS 2001). Current groundwater elevations and gradients are discussed in **Section 3**.

The Grand Island Formation aquifer is used regionally as a water supply source for irrigation and potable water. Locally, there are only two active irrigation wells near the on-post plume (Nebraska Department of Natural Resources [NEDNR] 2021) (shown on **Figure 5-1**). However, historical contaminant migration data and plume geometry indicate irrigation wells have not significantly impacted the groundwater flow over time. Irrigation wells are shown on various figures in **Sections 5** and **9**. Near the historic off-post plume, all private domestic water is supplied by the City of Grand Island. On-post institutional controls (per OU1 ROD Amendment [URSGWCFS

2001b]) prohibit the use of groundwater as a potable water source (and well drilling) within the plume areas (further discussed in **Section 8.1**).

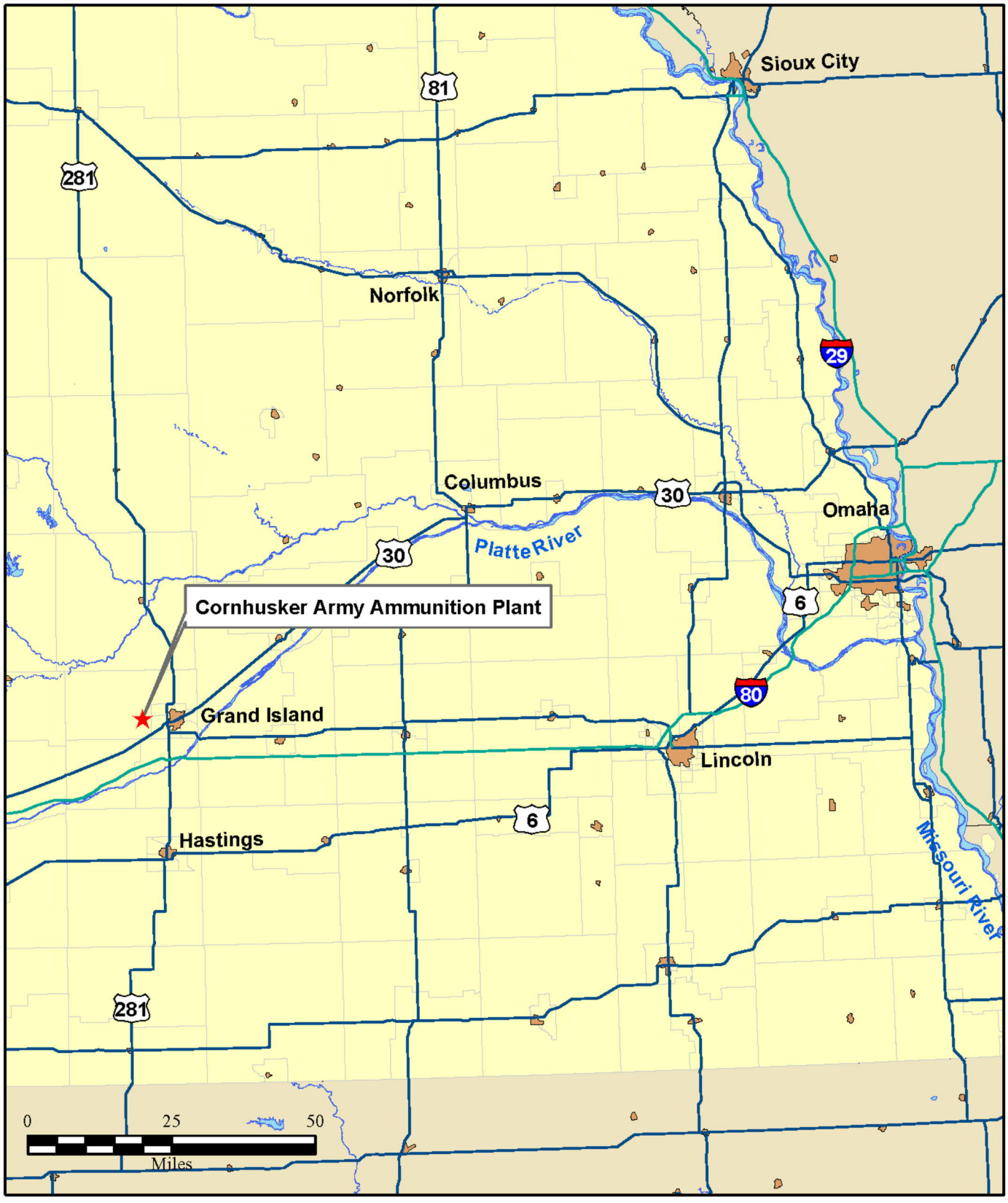
1.5.6.2 Fullerton Formation Aquitard

The underlying Fullerton clay unit is a relatively low-permeability unit that appears to act as a barrier to groundwater flow (i.e., aquitard) in the CHAAP study area. Justification for this interpretation includes:

- The presence of head differences across the Fullerton clay unit, as measured between the Grand Island Formation aquifer and the underlying Holdrege Formation aquifer at locations with nested monitoring wells installed (i.e., one monitoring well screened within each formation).
- The absence of contamination below the Fullerton clay unit at locations where contamination is present at the base of the Grand Island Formation aquifer.

1.5.6.3 Holdrege Formation Aquifer

The sands and gravels of the Holdrege Formation exist as a confined aquifer unit, confined by the overlying Fullerton clay unit within the OU1 RAO Load Line Treatment Areas. Based on historic annual water level data from the deep monitoring wells, the Holdrege Formation is not hydraulically connected to the overlying Grand Island Formation. No explosives contamination has been detected in the wells screened in this deeper aquifer unit.







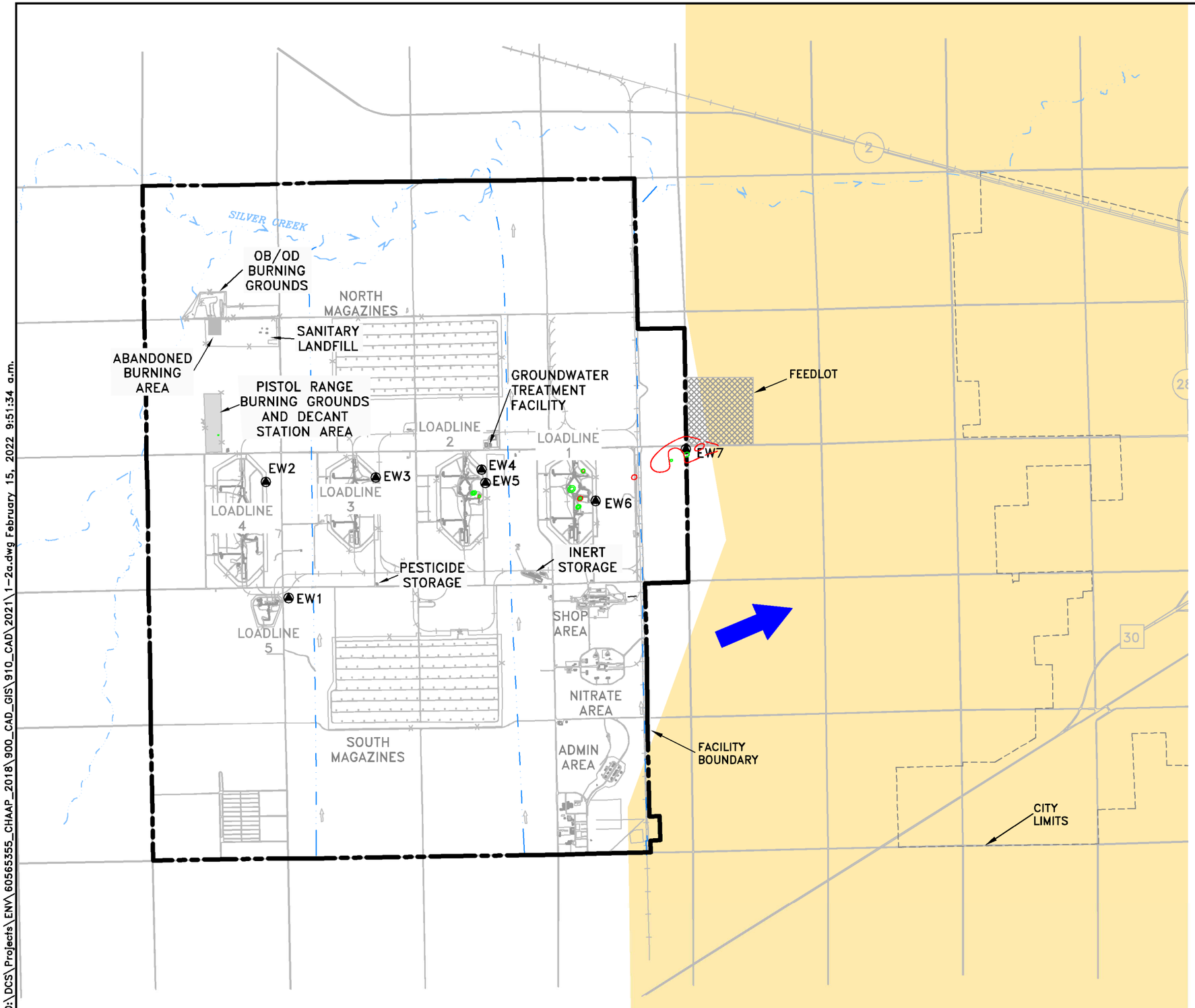
Brice ENGINEERING

AECOM

FACILITY LOCATION MAP
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 1-1
CHK'D. BY: DC	DATE: 08/30/21		

Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\1-1.dwg August 30, 2021 10:42:47 a.m.



LEGEND:

- ROADS
- FENCE
- FACILITY BOUNDARY
- SURFACE DRAINAGE
- DRAINAGE DITCH FLOW DIRECTION
- GRAND ISLAND CITY LIMITS
- GRAND ISLAND CITY ORDNANCE – OVERLAY ZONE (INCLUDES TWO-MILE JURISDICTION AREA OUTSIDE CITY LIMITS)
- ABANDONED BURNING GROUNDS, SANITARY LANDFILL, PISTOL RANGE BURNING GROUNDS, AND FEEDLOT
- INACTIVE GROUNDWATER EXTRACTION WELL
- 281 STATE ROUTE
- 30 U.S. ROUTE
- 2 INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (TNT CONCENTRATIONS >2µg/L) MAY/JUNE 2021
- 20 INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (TNT CONCENTRATIONS >20µg/L) MAY/JUNE 2021
- 2 INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) MAY/JUNE 2021
- 20 INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) MAY/JUNE 2021
- GENERAL GROUNDWATER FLOW DIRECTION

N

0 4000 8000

SCALE FEET

Bruce ENGINEERING AECOM

SITE LOCATION MAP
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 1-2
CHK'D. BY: DC	DATE: 08/30/21		

Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\1-2a.dwg February 15, 2022 9:51:34 a.m.

2.1 SUMMARY OF FIELD ACTIVITIES

This section summarizes the January through July 2021 field activities for the RAO GWTF at OU1 and groundwater monitoring at OU1/OU3 at CHAAP. Field activities completed for the OU1 Rebound Study and subsurface injections are only summarized below for reference but are provided in detailed OU1 Rebound Study Letter Reports, with the most recent activities included in the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022). All field activities were completed in accordance with field protocols and standard operating procedures (SOPs) presented in the Final UFP-QAPP (BW-URS 2014b) and its Final Addendum 2 UFP-QAPP (Brice-AECOM 2018). Applicable Nebraska contractor licenses for field activities completed in 2021 (i.e., well access, drilling, abandonment, sampling, etc.) are provided in **Appendix A**.

Plume interpretations shown throughout the figures in this document are based on the most recent data at a given well or location, which is a combination of data collected during the OU1/OU3 LTM sampling event in May 2021 and the June 2021 Quarter 6 (Q6) OU1 Rebound Study and subsurface injection performance monitoring sampling event. Data and evaluations from the June 2021 Q6 OU1 Rebound Study and subsurface injection performance monitoring sampling event are presented in the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

2.2 GROUNDWATER TREATMENT FACILITY

In late October 2019, the approved OU1 Rebound Study began and pumping at EW7 was discontinued (set to 0 gpm) on October 28, 2019. Mothballing of the GWTF was completed to remain in a standby status if pump and treatment activities were to resume at a later date. Routine GWTF O&M activities are ongoing, including monthly service running of air compressors and bump starting of pumps, monthly inspections, lawn mowing, snow removal, pest control, and security. The process shutdown procedures are described in the GWTF O&M Manual (Brice 2019). Quarterly NPDES sampling was also temporarily discontinued, and no samples were collected in 2021. The most recent OU1 RAO quarterly NPDES sampling (October 2019) and results are provided in the Final 2019 Annual Groundwater Monitoring Report (Brice-AECOM 2020b).

2.3 OU1 AND OU3 ANNUAL GROUNDWATER LONG-TERM MONITORING

The following sections summarize the site-wide water level measurements and the annual groundwater purging and sampling activities at OU1/OU3. A summary of the OU1 on-post and off-post sampling locations is presented in **Tables 2-1** and **2-2**, respectively, and site-wide shown on **Figure 2-1**. **Table 2-3** presents a summary of the OU3 Shop Area locations sampled, and the locations are shown on **Figure 2-2**.

2.3.1 Groundwater Level Measurement

Prior to the annual groundwater sampling activities, an OU1/OU3 site-wide water level measurement round was completed at 102 off- and on-post wells and piezometers on May 18, 2021. Water levels were measured at existing monitoring wells and piezometers and existing observation wells (associated with extraction wells) to determine groundwater elevations, hydraulic gradients, and groundwater flow directions. No extraction wells (including EW7) were in operation during the water level measurement round. Water levels were measured at the surveyed reference point found on the top of the polyvinyl chloride (PVC) well casings using an electronic water level meter. During the water level measurement round, locations were measured over 1 day to minimize the effects of water table fluctuations. Water level measurement locations and results are discussed in **Section 3** and provided in **Table 3-1**.

For OU1, groundwater levels were measured at 12 off-post monitoring wells, 76 on-post monitoring wells and piezometers, and 6 on-post observation wells (from EW4 and EW5). Six observation wells for EW6 and EW7 were inadvertently not measured during the water level round; however, adjacent wells were measured and data are sufficient to construct the water table elevation map. For OU3, groundwater levels were measured at eight monitoring wells. OU1/OU3 groundwater level elevations and interpreted water table figures are presented and discussed in **Section 3**.

All water level measurement equipment was properly decontaminated with a nonphosphate soap and triple-rinsed with deionized (DI) water between each well location, in accordance with SOP 7, Equipment and Personnel Decontamination (BW-URS 2014b). Water level measurements followed the procedures outlined in SOP 2, Water Level Measurement (BW-URS 2014b). All measurements at OU1/OU3 were recorded in the field forms and logbooks.

2.3.2 Monitoring Well/Piezometer Purging and Water Quality Parameter Measurement

Prior to purging, the static water level was measured at each well, and the well volume was calculated and recorded on a sample collection field sheet (SCFS). The monitoring wells and piezometers were purged with stainless steel ProActive Monsoon® submersible pumps. The ProActive Monsoon® pump, with new disposable tubing, was lowered to the middle of the screened interval prior to purging. Modified low-flow purging techniques were attempted at each monitoring well and piezometer location, maintaining < 0.3 foot of water level drawdown at a pumping rate of 0.5 liters per minute (lpm) or less. Field water quality parameters, including DO, temperature, pH, conductivity, and oxidation/reduction potential (ORP) were measured at OU1/OU3 monitoring wells and piezometers using an Aqua TROLL 500 water quality probe fitted with a flow-through cell. Turbidity was measured with a LaMotte 2020 turbidity meter. Ferrous iron (Fe^{2+}) was measured using a Hach DR820 colorimeter. Purging continued until field water quality parameters stabilized (i.e., three consecutive readings) within criteria ranges specified in SOP 3, Monitoring Well and Piezometer Groundwater Sampling (BW-URS 2014b) and as stated below.

- pH plus or minus (±) 0.2 units

- Specific conductance ± 3 percent of previous readings
- Dissolved oxygen (DO) ± 10 percent of previous readings
- ORP ± 20 millivolts (mV)
- Turbidity less than or equal to 5 nephelometric turbidity units or 10 percent of previous readings, whichever is greater
- Temperature ± 10 percent of previous readings

The measurements were recorded on an SCFS and are included in **Appendix B**. OU1 on-post and off-post monitoring well field water quality parameter measurements are presented in **Tables 2-4** and **2-5**, respectively. **Table 2-6** summarizes OU1 field water quality parameter concentration ranges for on-post and off-post groundwater. OU3 monitoring well field water quality parameter measurements are presented in **Table 2-7**. Field instrumentation was calibrated using manufacturer guidelines prior to shipment to the site. The water quality probes were recalibrated once per week, and calibration was verified each day with certified standards. Results of calibration checks were recorded in the field logbook.

2.3.3 Groundwater Sampling

The following sections summarize groundwater sampling activities completed during the annual LTM event at OU1/OU3.

2.3.3.1 Source Water Sampling

DI water was used as the source water for decontamination activities during the 2021 annual groundwater sampling activities. DI water was provided by Culligan® of Grand Island, Nebraska. Decontamination procedures included a nonphosphate soap scrub/wash, followed by a triple rinse with DI water. A sample was collected for the source water (DI water used for decontamination activities) and shipped to Eurofins-TestAmerica Laboratory for analysis of explosives (including mono-nitroso-RDX [MNX]) by USEPA Method 8330A and VOCs (including Freon® 113) by USEPA Method 8260B. No explosive compounds or VOCs, other than trace VOCs that are commonly found in water treatment processes, were detected in the source water sample. Additionally, these trace VOC concentrations detected in the source water (i.e., Bromodichloromethane, Bromoform, Chloroform, and Dibromochloromethane) were below Project Action Limits and were not detected in groundwater samples analyzed for VOCs (see **Sections 2.3.4 and 5.3**).

2.3.3.2 OU1 (Groundwater Explosives Plume) Groundwater Sampling

Groundwater samples were collected at OU1 from 12 off-post monitoring wells and 75 on-post monitoring wells and piezometers from May 19 to May 26, 2021 as shown on **Figure 2-1**. On-post monitoring well G0120 (downgradient of LL2) was identified as being damaged (pulled up and pinched under metal protective casing below ground surface) from farming activities and a groundwater level measurement and sample collection was unable to be completed.

After purging was completed, sample containers were filled from the discharge line at a rate of 0.5 lpm or less. Samples were collected and analyzed for the full suite of explosives (including MNX since March 2004) by Method 8330A and laboratory MNA parameters: alkalinity by Method 2320B, ammonia by Method 350.1, carbon dioxide (CO_2) back calculated by Method 2320B, nitrate/nitrite by Method 353.2, sulfate by Method 9056A, sulfide by Method 9034, total Kjeldahl nitrogen (TKN) by Method 351.2, dissolved organic carbon (DOC) by Method 9060A, and methane by Method Robert S. Kerr Environmental Research Laboratory Method 175 (RSK-175). Groundwater samples were placed in appropriately labeled sample containers, packed in coolers with wet ice (to achieve a cooler temperature of approximately 6 degrees Celsius [°C] or less), and shipped to Eurofins-TestAmerica Laboratory via FedEx. Quality control (QC) samples (field duplicates) and matrix spike/matrix spike duplicates (MS/MSDs) were collected at a 5-percent rate total during the entire field event (i.e., one per 20 samples collected) for all parameters (**Tables 2-1** and **2-2**).

2.3.3.3 OU3 (Shop Area) Groundwater Sampling

Groundwater samples were collected at the OU3 Shop Area from two monitoring wells on May 26, 2021 as shown on **Figure 2-2**. Purging was completed at all wells, and the sample containers were filled from the discharge line at a rate of 0.5 lpm or less. Samples were collected and analyzed for the full suite of VOCs (including Freon® 113) by Method 8260B and for select laboratory MNA parameters including alkalinity by Method 2320B, nitrate/nitrite by Method 353.2, sulfate by Method 9056A, and dissolved gases (methane, ethane, and ethene) by Method RSK-175. Groundwater from one well (SHGW03) was also sampled and analyzed for TPH-DRO by Method 8015B.

In 2013, four downgradient monitoring wells (G0053, G0069, SAMW1, and SHGW04) were recommended and approved to change sampling frequency from annually, to every three years, due to no historic MCL exceedances at these wells (BW-URS 2014a). During the 2021 annual groundwater LTM event, these four downgradient wells were not sampled.

Groundwater samples were placed in appropriately labeled sample containers, packed in coolers with wet ice (to achieve a cooler temperature of approximately 6°C or less), and shipped to Eurofins-TestAmerica Laboratory via FedEx. One field duplicate sample was collected at OU3 (contributing to the 5-percent rate total during the entire field event) and analyzed for all parameters. The field duplicate sample identification (ID) number is shown in **Table 2-3**.

2.3.4 Investigation-Derived Waste Disposal Procedures

Investigation-derived waste (IDW) from the May 2021 sampling event activities consisted of purge and decontamination water. IDW disposal was completed in accordance with NDEE IDW procedures as outlined in the Final UFP-QAPP (BW-URS 2014b), as follows:

- A visual inspection of the IDW was conducted for evidence of potential contamination (i.e., discoloration, sheen, etc.). No visual evidence of potential contamination was observed.

- All IDW water was containerized in an IDW-labeled poly tank located at the GWTF and sampled for site waste characterization analysis (Explosives [including MNX] [Method 8330A]) and VOCs [Method 8260B]). All IDW analytical results were below HALs or MCLs, as summarized in **Table 2-8** (data included in **Appendix D**).
- Following receipt of analytical results, all IDW water was discharged to the ground surface.

2.3.5 Field Documentation, Sample Identification, Sample Handling, and Shipping

The observations and data collected during field activities were recorded with waterproof ink in a permanently bound, waterproof logbook with consecutively numbered pages, and/or on the well SCFS (provided in **Appendix B**), if applicable. During OU1/OU3 annual groundwater sampling activities, the following observations were identified during field activities. Possible or completed corrective measures are provided for each observation:

- G0120: Damaged (crushed/pinched under metal casing) during farming activities, unable to access for sampling activities; however, no identified pathway to groundwater.
  - — Due to historic concentrations below HALs and adjacent wells in proximity, recommending abandonment (vs repair/replacement).
- G0103, G0121, G0122: Sulfur odor and/or turbid color.
  - — Likely effects from previous injections. Field water quality parameters and analytical results remain consistent with previous results. No additional activities recommended.

Samples were collected in laboratory-provided containers. Samples collected during the OU1/OU3 annual groundwater sampling activities were given discrete ID codes. Each ID code included the sample location number (sample depth for direct push groundwater samples), and collection date. Sample ID labels were attached to each sample container and completed using waterproof, permanent ink. The labels were completed with the sampler's name, sample ID number, date and time of sample collection, preservation type, analyses requested, and sampling matrix. Sample containers were placed into coolers, packed with wet ice, and made ready for shipment. The chain-of-custody (CoC) forms were included in each cooler. A copy of each CoC was maintained to document sample handling between the field and the laboratory. Sample coolers were shipped to Eurofins-TestAmerica Laboratory during each sampling event. All samples were shipped via FedEx priority overnight delivery.

All field documentation, sample ID, sample handling, and shipping procedures were completed in accordance with SOP 6, Sample ID, Handling, Documentation, Shipping, and Tracking (BW-URS 2014b).

2.3.6 Reporting

2.3.6.1 Daily Quality Control Reports

Daily Quality Control Reports (DQCRs) were completed for each day of fieldwork associated with the OU1/OU3 annual groundwater monitoring event. DQCRs include a summary of daily field activities, safety activities, quality assurance/QC activities pertaining to all features of work, problems encountered in the field, and any corrective actions that were taken. Copies of the completed DQCRs are provided in **Appendix B**. DQCRs for additional fieldwork activities completed in 2021 (i.e., OU1 Rebound Study, OU1 subsurface injection performance monitoring) are included in associated submittals.

2.3.6.2 Weekly Progress Reports

Weekly progress reports were completed throughout the duration of field activities for the OU1/OU3 annual groundwater monitoring event. Weekly progress reports were submitted to the USACE Project Manager. The weekly reports included a summary of all work performed in a particular week including mobilization, site preparation, site access, surveying, OU1/OU3 annual water level rounds and groundwater sampling, and demobilization actions. The weekly reports also included a summary of the problems encountered, deviations from the scope of work, percentage of work performed, and records of conversations or other correspondence among CHAAP team members. Copies of the weekly progress reports are provided in **Appendix B**. Weekly progress reports for additional fieldwork activities completed in 2021 (i.e., OU1 Rebound Study, OU1 subsurface injection performance monitoring) are included in associated submittals.

2.3.6.3 Photographic Documentation

A photographic record of site activities and progress was maintained throughout the course of the OU1/OU3 annual groundwater monitoring event field activities. Pertinent photographs were compiled, described, and presented in a photographic log of May 2021 fieldwork activities. This photographic log is provided in **Appendix C**. Photographic logs for additional fieldwork activities completed in 2021 (i.e., OU1 Rebound Study, OU1 subsurface injection performance monitoring) are included in associated submittals.

2.4 SUMMARY OF ADDITIONAL FIELD ACTIVITIES

2.4.1 OU1 Rebound Study and Subsurface Injections

The OU1 Rebound Study includes eight sampling events (one baseline, seven follow-up), on an approximately quarterly frequency. Groundwater samples have been collected from 36 select OU1 on- and off-post monitoring wells (18 on-post, 18 off-post) per sampling event to determine explosives and MNA parameter concentrations and potential explosives plume migration trends both off-post and on-post. Beginning in February/March 2021 (Quarter 5), six off-post monitoring wells (NW050, NW051, NW052, NW080, NW081R, and NW082R) that are part of the quarterly OU1 Rebound Study sampling events and/or OU1 annual LTM event can no longer be accessed

due to the landowner not renewing the access lease and will be abandoned (further discussed in **Section 9.2**).

Once the OU1 Rebound Study was initiated, one baseline sampling event (October 2019) was completed prior to shutdown of EW7. Additionally, direct push groundwater samples are collected in the off-post area directly downgradient of EW7 to determine and verify the farthest downgradient extent of the explosives plume (within the EW7 capture zone) while EW7 was operating, and following shutdown, to identify potential explosives plume migration.

Concurrent with the OU1 Rebound Study, two rounds of on-post subsurface injections (2019 and 2020) were completed near the former facility boundary in the areas of highest RDX and TNT concentrations, and at on-post areas with RDX and TNT concentrations remaining above HALs to accelerate the remedial timeframes. For the 2019 subsurface injection event, four quarterly groundwater sampling events were completed to evaluate injection performance: baseline – October 2019, Q2 – February/March 2020, Q3 – May/June 2020, and Q4 – September/October 2020. For the 2020 subsurface injection event, four quarterly groundwater sampling events are being completed to evaluate injection performance: Q5 – February/March 2021, Q6 – May/June 2021, Q7 – October 2021, and Q8 – anticipated February 2022.

The OU1 Rebound Study and 2019 OU1 subsurface injection activities with associated quarterly performance monitoring activities are detailed in the Final OU1 Rebound Study Letter Report – Baseline Event (Brice-AECOM 2020a), Final OU1 Rebound Study Letter Report – Quarter 2 Event (Brice-AECOM 2020c), Final OU1 Rebound Study Letter Report – Quarter 3 Event (Brice-AECOM 2020d), and Final OU1 Rebound Study Letter Report – Quarter 4 Event (Brice-AECOM 2021a). More recent OU1 Rebound Study and the 2020 OU1 subsurface injection activities with associated quarterly performance monitoring activities are detailed in the Final OU1 Rebound Study Letter Report – Quarter 5 Event (Brice-AECOM 2021c) and the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

TABLE 2-1
OU1 ON-POST GROUNDWATER MONITORING WELLS AND PIEZOMETERS SAMPLED
2021 ANNUAL REPORT

Well Number	Sample Date	Explosives[1]	Laboratory MNA Parameters[2]	Field MNA Parameters[3]	Field Duplicate Sample ID[4]	Field MS/MSD Sample ID[5]
G0017	5/25/2021	X	X	X		
G0022	5/25/2021	X	X	X		
G0023	5/21/2021	X	X	X		
G0024	5/26/2021	X	X	X		
G0044	5/24/2021	X	X	X		
G0045	5/25/2021	X	X	X		
G0048	5/21/2021	X	X	X		
G0049	5/21/2021	X	X	X		
G0066R	5/23/2021	X	X	X		
G0067	5/22/2021	X	X	X		
G0070	5/20/2021	X	X	X		G0070-21A MS/MSD
G0075	5/20/2021	X	X	X		
G0076	5/20/2021	X	X	X		
G0077	5/26/2021	X	X	X		
G0078	5/26/2021	X	X	X		
G0079	5/20/2021	X	X	X		
G0080	5/20/2021	X	X	X		
G0081	5/20/2021	X	X	X		
G0082	5/20/2021	X	X	X		
G0083	5/21/2021	X	X	X		
G0084	5/24/2021	X	X	X		
G0085	5/19/2021	X	X	X		
G0086	5/25/2021	X	X	X		
G0087	5/25/2021	X	X	X		
G0088	5/20/2021	X	X	X		
G0089	5/20/2021	X	X	X		

Notes:

*G0120 was identified as damaged (farming activities) and not sampled. Well is being recommended for abandonment.

[1]Explosives (+MNX) analysis (SW846 Method 8330A).

[2]Laboratory MNA parameters for OU1 (on- and off-post) include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B).

[3]Field MNA parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, specific conductance, turbidity, pH, and temperature.

[4]Field duplicate samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for field duplicate samples based on presence of historic explosives concentrations at those locations.

[5]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for MS/MSD samples based on the lack of historic explosives concentrations at those locations.

% = percent

ID = identification number

MNX = mono-nitroso-RDX

MS/MSD = matrix spike/matrix spike duplicate

MNA = monitored natural attenuation

NS = not sampled

OU = Operable Unit

PZ = piezometer

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

TABLE 2-1
OU1 ON-POST GROUNDWATER MONITORING WELLS AND PIEZOMETERS SAMPLED
2021 ANNUAL REPORT

Well Number	Sample Date	Explosives[1]	Laboratory MNA Parameters[2]	Field MNA Parameters[3]	Field Duplicate Sample ID[4]	Field MS/MSD Sample ID[5]
G0090	5/20/2021	X	X	X		
G0091	5/24/2021	X	X	X		
G0092	5/24/2021	X	X	X		
G0093	5/21/2021	X	X	X		
G0094	5/25/2021	X	X	X		
G0095	5/23/2021	X	X	X		
G0096	5/25/2021	X	X	X	G0296-21A	
G0097	5/23/2021	X	X	X		
G0098	5/23/2021	X	X	X		
G0099	5/23/2021	X	X	X		
G0100	5/23/2021	X	X	X		
G0101	5/24/2021	X	X	X		
G0102	5/21/2021	X	X	X		
G0103	5/21/2021	X	X	X		
G0104	5/21/2021	X	X	X		
G0105	5/21/2021	X	X	X		
G0106	5/21/2021	X	X	X		
G0107	5/21/2021	X	X	X		
G0108	5/22/2021	X	X	X		
G0109	5/23/2021	X	X	X		
G0110	5/22/2021	X	X	X		
G0111	5/24/2021	X	X	X	G0311-21A	
G0112	5/23/2021	X	X	X		
G0113	5/23/2021	X	X	X		
G0114	5/22/2021	X	X	X		
G0115	5/24/2021	X	X	X		

Notes:

*G0120 was identified as damaged (farming activities) and not sampled. Well is being recommended for abandonment.

[1]Explosives (+MNX) analysis (SW846 Method 8330A).

[2]Laboratory MNA parameters for OU1 (on- and off-post) include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B).

[3]Field MNA parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, specific conductance, turbidity, pH, and temperature.

[4]Field duplicate samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for field duplicate samples based on presence of historic explosives concentrations at those locations.

[5]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for MS/MSD samples based on the lack of historic explosives concentrations at those locations.

% = percent

ID = identification number

MNX = mono-nitroso-RDX

MS/MSD = matrix spike/matrix spike duplicate

MNA = monitored natural attenuation

NS = not sampled

OU = Operable Unit

PZ = piezometer

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

TABLE 2-1
OU1 ON-POST GROUNDWATER MONITORING WELLS AND PIEZOMETERS SAMPLED
2021 ANNUAL REPORT

Well Number	Sample Date	Explosives[1]	Laboratory MNA Parameters[2]	Field MNA Parameters[3]	Field Duplicate Sample ID[4]	Field MS/MSD Sample ID[5]
G0116	5/22/2021	X	X	X		
G0117	5/22/2021	X	X	X		
G0118	5/22/2021	X	X	X		
G0119	5/23/2021	X	X	X		
G0120*	NS	NS	NS	NS		
G0121	5/24/2021	X	X	X		
G0122	5/23/2021	X	X	X		
G0123	5/24/2021	X	X	X		
PZ001	5/24/2021	X	X	X		PZ001-21A MS/MSD
PZ004	5/24/2021	X	X	X		
PZ005	5/24/2021	X	X	X		
PZ007	5/25/2021	X	X	X		PZ007-21A MS/MSD
PZ009	5/22/2021	X	X	X		
PZ010	5/22/2021	X	X	X		
PZ011	5/22/2021	X	X	X		
PZ012	5/23/2021	X	X	X		
PZ013	5/22/2021	X	X	X		
PZ014	5/23/2021	X	X	X		
PZ015	5/21/2021	X	X	X		
PZ016	5/22/2021	X	X	X		
PZ017R	5/26/2021	X	X	X	PZ021-21A	
PZ018	5/25/2021	X	X	X		
PZ019	5/24/2021	X	X	X		PZ019-21A MS/MSD
PZ020	5/26/2021	X	X	X		
OU1 On-Post Totals		**75**	**75**	**75**	**3**	**4**

Notes:

*G0120 was identified as damaged (farming activities) and not sampled. Well is being recommended for abandonment.

[1]Explosives (+MNX) analysis (SW846 Method 8330A).

[2]Laboratory MNA parameters for OU1 (on- and off-post) include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B).

[3]Field MNA parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, specific conductance, turbidity, pH, and temperature.

[4]Field duplicate samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for field duplicate samples based on presence of historic explosives concentrations at those locations.

[5]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for MS/MSD samples based on the lack of historic explosives concentrations at those locations.

% = percent

ID = identification number

MNX = mono-nitroso-RDX

MS/MSD = matrix spike/matrix spike duplicate

MNA = monitored natural attenuation

NS = not sampled

OU = Operable Unit

PZ = piezometer

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

TABLE 2-2
OU1 OFF-POST GROUNDWATER MONITORING WELLS SAMPLED
2021 ANNUAL REPORT

Well Number	Sample Date	Explosives[1]	Laboratory MNA Parameters[2]	Field MNA Parameters[3]	Field Duplicate Sample ID[4]	Field MS/MSD Sample ID[5]
CA210	5/19/2021	X	X	X		
CA211	5/19/2021	X	X	X		
CA212	5/19/2021	X	X	X		
CA213	5/19/2021	X	X	X		
NW020	5/25/2021	X	X	X	NW023-21A	
NW021	5/25/2021	X	X	X		
NW022	5/25/2021	X	X	X		
NW060	5/19/2021	X	X	X		
NW061	5/19/2021	X	X	X		
NW062	5/19/2021	X	X	X		NW062-21A MS/MSD
NW070	5/19/2021	X	X	X		
NW071	5/19/2021	X	X	X		
OU1 Off-Post Totals		**12**	**12**	**12**	**1**	**1**

Notes:

[1]Explosives (+MNX) analysis (SW846 Method 8330A).

[2]Laboratory MNA parameters for OU1 (on- and off-post) include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B).

[3]Field MNA parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, specific conductance, turbidity, pH, and temperature.

[4]Field duplicate samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for field duplicate samples based on presence of historic explosives concentrations at those locations.

[5]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Wells were chosen for MS/MSD samples based on the lack of historic explosives concentrations at those locations.

% = percent

ID = identification number

MNX = mono-nitroso-RDX

MS/MSD = matrix spike/matrix spike duplicate

MNA = monitored natural attenuation

OU = Operable Unit

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

TABLE 2-3
OU3 SHOP AREA GROUNDWATER MONITORING WELLS SAMPLED
2021 ANNUAL REPORT

Well Number	Sample Date	VOCs[1]	TPH-DRO[2]	Laboratory MNA Parameters[3]	Field MNA Parameters[4]	Field Duplicate Sample ID[5]	Field MS/MSD Sample ID[6]
SHGW02	5/26/2021	X		X	X	SHGW05-21A	
SHGW03	5/26/2021	X	X	X	X		
OU3 Shop Area Totals		**2**	**1**	**2**	**2**	**1**	**0**

Notes:

[1]VOCs analysis (SW846 Method 8260B).

[2]TPH-DRO analysis (SW846 Method 8015B).

[3]Laboratory MNA parameters for OU3 Shop Area include: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), and alkalinity (Method 2320B).

[4]Field MNA parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, specific conductance, turbidity, pH, and temperature.

[5]Field duplicate samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters. Well was chosen for field duplicate sample based on presence of historic VOC concentrations at this location.

[6]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

% = percent
ID = identification number
MS/MSD = matrix spike/matrix spike duplicate
MNA = monitored natural attenuation
OU = Operable Unit
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TABLE 2-4
FIELD WATER QUALITY PARAMETERS
OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Well Number	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Ferrous Iron (mg/L)
G0017	5/25/2021	7.21	12.88	1.850	0.01	-328.6	4.93	0.59
G0022	5/25/2021	6.68	11.99	0.940	0.10	18.2	0.87	0.35
G0023	5/21/2021	6.39	17.69	0.857	0.16	-85.8	16.31	8.25
G0024	5/26/2021	6.74	12.24	0.613	5.07	221.4	0.00	0.04
G0044	5/24/2021	7.11	12.65	2.193	6.25	202.0	0.00	0.00
G0045	5/25/2021	7.13	12.93	3.020	0.03	-268.5	3.64	0.65
G0048	5/21/2021	6.35	14.10	0.671	0.02	102.8	3.38	0.12
G0049	5/21/2021	7.02	15.18	1.277	0.07	-109.7	1.37	0.81
G0066R	5/23/2021	6.51	12.63	1.810	0.01	-343.1	2.06	2.15
G0067	5/22/2021	6.38	13.46	0.781	4.63	178.5	0.00	0.00
G0070	5/20/2021	7.09	14.32	0.451	5.09	176.3	0.00	0.00
G0075	5/20/2021	6.68	12.57	0.900	0.01	143.9	0.00	0.10
G0076	5/20/2021	6.65	13.45	1.264	0.01	-10.4	0.18	2.42
G0077	5/26/2021	6.87	12.79	0.881	1.55	165.7	0.00	0.00
G0078	5/26/2021	6.95	14.93	1.118	0.08	-21.5	0.00	1.09
G0079	5/20/2021	6.51	12.23	0.666	0.88	123.7	0.00	0.03
G0080	5/20/2021	6.51	13.19	0.701	0.04	170.1	0.00	0.00
G0081	5/20/2021	6.38	17.54	0.780	0.39	204.1	2.03	0.04
G0082	5/20/2021	6.24	16.75	0.860	0.13	105.6	1.61	0.00
G0083	5/21/2021	6.71	12.87	1.319	0.21	218.6	0.00	0.00
G0084	5/24/2021	6.54	12.82	1.060	0.02	-113.7	1.93	2.72
G0085	5/19/2021	6.94	16.88	1.195	0.05	-77.6	3.83	3.54
G0086	5/25/2021	6.67	14.51	0.966	0.13	186.9	0.38	0.02
G0087	5/25/2021	6.62	13.96	0.774	0.25	121.2	0.00	0.00
G0088	5/20/2021	6.83	12.75	0.990	0.01	247.9	1.87	0.00
G0089	5/20/2021	6.23	14.54	0.820	0.01	127.3	2.43	0.11
G0090	5/20/2021	6.43	18.35	0.860	1.24	191.9	22.80	0.85
G0091	5/24/2021	6.92	13.83	1.195	4.74	94.3	0.00	0.02
G0092	5/24/2021	7.23	14.38	1.051	0.06	15.0	0.00	0.12
G0093	5/21/2021	6.60	11.83	0.800	0.22	-115.0	2.02	2.13

Notes:

*G0120 was identified as damaged (farming activities) and not sampled. Well is being recommended for abandonment.

Field water quality parameters for all wells were measured using an Aqua TROLL® 500 MPS equipped with a flow-through cell with the exception of turbidity and ferrous iron. Turbidity was measured using a LaMotte turbidity meter (2020). Ferrous iron was measured using a Hach colorimeter (DR/820).

°C = degrees Celsius
DO = dissolved oxygen
mg/L = milligrams per liter
MPS = multiprobe system
mS/cm = milliSiemens per centimeter
mV = millivolts
NS = not sampled
NTU = nephelometric turbidity units
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer

TABLE 2-4
FIELD WATER QUALITY PARAMETERS
OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Well Number	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Ferrous Iron (mg/L)
G0094	5/25/2021	6.13	11.62	1.080	0.02	-62.6	2.60	4.98
G0095	5/23/2021	6.73	12.68	2.260	0.05	-162.5	4.50	1.20
G0096	5/25/2021	6.29	11.83	1.230	0.02	-138.6	2.10	1.09
G0097	5/23/2021	6.26	13.32	1.425	0.05	-196.8	5.82	9.06
G0098	5/23/2021	6.18	15.55	1.057	0.08	-175.3	0.99	8.88
G0099	5/23/2021	6.34	14.11	0.767	0.06	49.6	0.00	2.34
G0100	5/23/2021	6.55	12.84	2.000	0.01	-197.8	4.00	1.66
G0101	5/24/2021	6.64	11.76	2.340	0.04	-58.6	1.31	1.67
G0102	5/21/2021	6.70	13.39	2.530	0.01	-335.7	2.32	1.86
G0103	5/21/2021	6.75	12.58	2.560	0.05	-379.3	2.60	0.56
G0104	5/21/2021	6.90	11.94	2.220	0.01	-146.4	0.82	2.37
G0105	5/21/2021	6.96	12.27	2.450	0.01	-128.7	1.13	1.50
G0106	5/21/2021	6.90	13.08	2.460	0.04	-17.3	1.34	0.63
G0107	5/21/2021	6.95	12.15	2.480	0.01	-99.0	1.83	2.36
G0108	5/22/2021	6.56	14.10	1.167	0.25	-114.0	3.70	10.00
G0109	5/23/2021	6.86	14.80	0.735	0.07	-112.9	3.05	6.30
G0110	5/22/2021	6.30	14.16	1.405	0.26	-89.5	0.96	8.64
G0111	5/24/2021	6.38	12.11	2.130	0.04	-63.8	3.44	1.79
G0112	5/23/2021	6.64	13.51	0.778	0.02	-111.1	0.00	1.04
G0113	5/23/2021	6.40	15.72	0.820	0.03	-212.2	0.47	5.66
G0114	5/22/2021	6.34	14.44	0.701	0.32	-94.0	17.72	6.12
G0115	5/24/2021	6.57	11.90	2.280	0.05	-135.0	3.74	1.67
G0116	5/22/2021	6.57	18.42	2.380	0.03	-295.1	4.37	3.02
G0117	5/22/2021	6.57	14.78	2.220	0.13	-105.2	3.05	2.56
G0118	5/22/2021	6.13	13.97	1.557	0.31	-93.2	0.47	10.40
G0119	5/23/2021	7.00	13.52	1.990	0.04	-195.0	4.28	1.62
G0120*	NS	NS	NS	NS	NS	NS	NS	NS
G0121	5/24/2021	5.59	12.36	2.330	0.08	-173.6	16.20	2.88
G0122	5/23/2021	6.69	13.10	2.440	0.02	-341.4	2.24	2.79
G0123	5/24/2021	6.40	12.57	1.880	0.05	-128.6	2.17	5.12
PZ001	5/24/2021	7.26	13.38	2.676	0.20	-25.4	0.00	0.43

Notes:

*G0120 was identified as damaged (farming activities) and not sampled. Well is being recommended for abandonment.

Field water quality parameters for all wells were measured using an Aqua TROLL® 500 MPS equipped with a flow-through cell with the exception of turbidity and ferrous iron. Turbidity was measured using a LaMotte turbidity meter (2020). Ferrous iron was measured using a Hach colorimeter (DR/820).

°C = degrees Celsius
DO = dissolved oxygen
mg/L = milligrams per liter
MPS = multiprobe system
mS/cm = milliSiemens per centimeter
mV = millivolts
NS = not sampled
NTU = nephelometric turbidity units
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer

TABLE 2-4
FIELD WATER QUALITY PARAMETERS
OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Well Number	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Ferrous Iron (mg/L)
PZ004	5/24/2021	7.19	13.04	2.532	0.76	-15.1	0.39	0.19
PZ005	5/24/2021	7.02	12.32	3.630	1.64	67.7	0.76	0.36
PZ007	5/25/2021	7.15	13.09	1.640	3.73	-16.5	0.98	0.45
PZ009	5/22/2021	7.05	15.13	2.140	0.99	123.4	3.03	0.54
PZ010	5/22/2021	6.89	14.60	1.980	0.82	-157.8	1.68	0.69
PZ011	5/22/2021	6.52	13.87	2.100	0.04	-151.3	3.99	2.18
PZ012	5/23/2021	6.75	11.77	1.920	0.02	-138.2	3.39	2.40
PZ013	5/22/2021	6.80	13.48	2.040	0.09	-122.3	1.70	1.20
PZ014	5/23/2021	6.62	12.39	1.750	0.34	-48.9	1.56	2.87
PZ015	5/21/2021	6.18	13.28	0.633	0.14	35.4	0.68	4.06
PZ016	5/22/2021	6.38	12.44	0.837	0.17	121.9	0.00	0.13
PZ017R	5/26/2021	6.17	12.16	0.910	0.03	144.5	0.88	0.27
PZ018	5/25/2021	5.96	14.65	0.870	0.01	11.5	0.70	6.30
PZ019	5/24/2021	6.39	13.35	0.709	8.36	145.8	0.00	0.05
PZ020	5/26/2021	6.91	12.80	1.003	2.77	92.8	0.00	0.00

Notes:

*G0120 was identified as damaged (farming activities) and not sampled. Well is being recommended for abandonment.

Field water quality parameters for all wells were measured using an Aqua TROLL® 500 equipped with a flow-through cell with the exception of turbidity and ferrous iron. Turbidity was measured using a LaMotte turbidity meter (2020). Ferrous iron was measured using a Hach colorimeter (DR/820).

°C = degrees Celsius

DO = dissolved oxygen

mg/L = milligrams per liter

MPS = multiprobe system

mS/cm = milliSiemens per centimeter

mV = millivolts

NS = not sampled

NTU = nephelometric turbidity units

ORP = oxidation/reduction potential

OU = Operable Unit

PZ = piezometer

TABLE 2-5
FIELD WATER QUALITY PARAMETERS
OU1 OFF-POST MONITORING WELLS
2021 ANNUAL REPORT

Well Number	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Ferrous Iron (mg/L)
CA210	5/19/2021	6.66	14.29	1.611	0.06	192.0	16.39	0.15
CA211	5/19/2021	6.33	12.80	0.809	0.70	149.5	40.79	0.02
CA212	5/19/2021	6.65	14.77	0.555	0.05	124.8	470.29	0.10
CA213	5/19/2021	7.44	16.59	0.366	0.33	106.5	19.22	0.60
NW020	5/25/2021	6.85	12.86	1.633	6.69	193.0	0.04	0.00
NW021	5/25/2021	7.02	13.20	1.084	0.67	148.3	0.00	0.02
NW022	5/25/2021	7.03	13.49	1.338	0.03	-29.7	0.00	0.92
NW060	5/19/2021	6.12	15.34	0.105	10.89	214.5	0.90	0.10
NW061	5/19/2021	6.79	20.49	0.920	0.29	243.4	105.42	0.03
NW062	5/19/2021	7.04	17.69	0.853	0.21	-56.9	2.25	0.94
NW070	5/19/2021	6.88	15.65	0.279	0.19	137.0	2.09	0.04
NW071	5/19/2021	6.35	14.33	0.640	1.80	165.3	3.03	0.08

Notes:

Field water quality parameters for all wells were measured using an Aqua TROLL® 500 equipped with a flow-through cell with the exception of turbidity and ferrous iron. Turbidity was measured using a LaMotte turbidity meter (2020). Ferrous iron was measured using a Hach colorimeter (DR/820).

°C = degrees Celsius
DO = dissolved oxygen
mg/L = milligrams per liter
MPS = multiprobe system
mS/cm = milliSiemens per centimeter
mV = millivolts
NTU = nephelometric turbidity units
ORP = oxidation/reduction potential
OU = Operable Unit

TABLE 2-6
FIELD WATER QUALITY PARAMETER RANGES
OU1 ON-POST AND OFF-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

On-Post Wells

Water Quality Parameters (Units)	Measurement Range
ORP (mV)	-379.30 to 247.90
Dissolved Oxygen (mg/L)	0.01 to 8.36
pH	5.59 to 7.26
Specific Conductance (mS/cm)	0.451 to 3.630
Temperature (°C)	11.62 to 18.42
Ferrous Iron (mg/L)	0.00 to 10.40
Turbidity (NTU)	0.00 to 22.80

Off-Post Wells

Water Quality Parameters (Units)	Measurement Range
ORP (mV)	-56.90 to 243.40
Dissolved Oxygen (mg/L)	0.03 to 10.89
pH	6.12 to 7.44
Specific Conductance (mS/cm)	0.105 to 1.633
Temperature (°C)	12.80 to 20.49
Ferrous Iron (mg/L)	0.00 to 0.94
Turbidity (NTU)	0.00 to 470.29

Notes:

°C = degrees Celsius

mg/L = milligrams per liter

mS/cm = milliSiemens per centimeter

mV = millivolts

NTU = nephelometric turbidity units

ORP = oxidation/reduction potential

OU = Operable Unit

TABLE 2-7
FIELD WATER QUALITY PARAMETERS
OU3 SHOP AREA MONITORING WELLS
2021 ANNUAL REPORT

Well Number	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Ferrous Iron (mg/L)
SHGW02	5/26/2021	5.63	12.61	0.560	0.02	-110.0	4.89	0.69
SHGW03	5/26/2021	5.88	12.13	0.450	1.05	113.7	3.97	0.22

Notes:

Field water quality parameters for all wells were measured using an Aqua TROLL ® 500 MPS equipped with a flow-through cell with the exception of turbidity and ferrous iron. Turbidity was measured using a LaMotte turbidity meter (2020). Ferrous iron was measured using a Hach colorimeter (DR/820).

°C = degrees Celsius
DO = dissolved oxygen
mg/L = milligrams per liter
MPS = multiprobe system
mS/cm = milliSiemens per centimeter
mV = millivolts
NTU = nephelometric turbidity units
ORP = oxidation/reduction potential
OU = Operable Unit

TABLE 2-8
SUMMARY OF EXPLOSIVES AND VOCs DETECTED, IDW - WATER
2021 ANNUAL REPORT

FIELD ID SAMPLE DATE	CHAAP HALs or MCLs	WC-Q6-JUNE21 6/6/2021 Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)						
1,3,5-Trinitrobenzene	NA	<	UJ	0.092	0.22	0.23
1,3-Dinitrobenzene	NA	<	UJ	0.04	0.11	0.12
2,4,6-Trinitrotoluene	2	<	UJ	0.049	0.11	0.12
2,4-Dinitrotoluene	NA	<	UJ	0.03	0.087	0.11
2,6-Dinitrotoluene	NA	<	UJ	0.044	0.087	0.11
2-Amino-4,6-dinitrotoluene	NA	<	UJ	0.055	0.11	0.12
2-Nitrotoluene	NA	<	UJ	0.093	0.22	0.23
3-Nitrotoluene	NA	<	UJ	0.21	0.44	0.44
4-Amino-2,6-dinitrotoluene	NA	<	UJ	0.063	0.13	0.16
4-Nitrotoluene	NA	<	UJ	0.11	0.44	0.45
HMX	400	<	UJ	0.096	0.22	0.23
MNX	NA	<	UJ	0.17	0.44	2.2
Nitrobenzene	NA	<	UJ	0.099	0.22	0.23
RDX	2	<	UJ	0.056	0.22	0.23
Tetryl	NA	<	UJ	0.035	0.11	0.12
VOLATILE ORGANIC COMPOUNDS (USEPA Method 8260B) (µg/L)						
1,1,1-Trichloroethane	200	<	U	0.16	0.4	1
1,1,2,2-Tetrachloroethane	NA	<	U	0.21	0.8	1
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon® 113)	NA	0.92	J	0.18	0.4	3
1,1,2-Trichloroethane	5	<	U	0.27	0.8	1
1,1-Dichloroethane	NA	<	U	0.22	0.8	1
1,1-Dichloroethene	7	<	U	0.23	0.8	1
1,2,3-Trichlorobenzene	NA	<	U	0.21	0.8	1
1,2,4-Trichlorobenzene	70	<	U	0.21	0.8	1
1,2-Dibromo-3-Chloropropane	0.2	<	U	0.47	1.6	5
1,2-Dibromoethane	0.05	<	U	0.18	0.4	1
1,2-Dichlorobenzene	600	<	U	0.15	0.4	1
1,2-Dichloroethane	5	<	U	0.13	0.4	1
1,2-Dichloropropane	5	<	U	0.18	0.4	1

Notes:

< = less than LOQ
µg/L = micrograms per liter
CHAAP = Cornhusker Army Ammunition Plant
DL = detection limit
HAL = health advisory level
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
IDW = investigation-derived waste
J = estimated
LOD = limit of detection
LOQ = limit of quantification
MCL = maximum contaminant level
MNX = mono-nitroso-RDX
NA = not available
OU = Operable Unit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compounds
WC = waste characterization (water)

TABLE 2-8
SUMMARY OF EXPLOSIVES AND VOCs DETECTED, IDW - WATER
2021 ANNUAL REPORT

FIELD ID SAMPLE DATE	CHAAP HALs or MCLs	WC-Q6-JUNE21 6/6/2021				
		Result	Qual	DL	LOD	LOQ
1,3-Dichlorobenzene	NA	<	U	0.13	0.4	1
1,4-Dichlorobenzene	75	<	U	0.16	0.4	1
2-Butanone (MEK)	NA	15		2	4	6
2-Hexanone	NA	3.1	J	1.7	4	5
4-Methyl-2-Pentanone (MIBK)	NA	<	U	0.98	3.2	5
Acetone	NA	16		1.9	6.4	10
Benzene	5	2.4		0.16	0.4	1
Bromochloromethane	NA	<	U	0.1	0.2	1
Bromodichloromethane	80	<	U	0.17	0.4	1
Bromoform	80	<	U	0.46	1	1
Bromomethane	NA	<	U	0.21	0.8	2
Carbon Disulfide	NA	0.96	J	0.17	0.8	2
Carbon Tetrachloride	5	<	U	0.19	0.4	2
Chlorobenzene	100	<	U	0.17	0.4	1
Chloroethane	NA	<	UJ	0.41	1.6	2
Chloroform	80	<	U	0.16	0.4	1
Chloromethane	NA	<	U	0.3	0.8	2
Cis-1,2-Dichloroethene	70	<	U	0.15	0.4	1
Cis-1,3-Dichloropropene	NA	<	U	0.16	0.4	1
Cyclohexane	NA	<	U	0.28	0.8	2
Dibromochloromethane	80	<	U	0.17	0.4	1
Dichlorodifluoromethane	NA	<	U	0.31	0.8	2
Ethyl Benzene	700	0.26	J	0.16	0.4	1
Isopropylbenzene	NA	<	U	0.19	0.4	1
Methyl Acetate	NA	<	U	1.6	4	5
Methyl Cyclohexane	NA	<	U	0.1	0.8	5
Methyl Tert-Butyl Ether (Mtbe)	NA	<	U	0.25	0.4	2
Methylene Chloride	5	<	U	0.94	2	5
Styrene	100	<	U	0.36	0.8	1
Tetrachloroethylene (Pce)	5	<	U	0.2	0.4	1

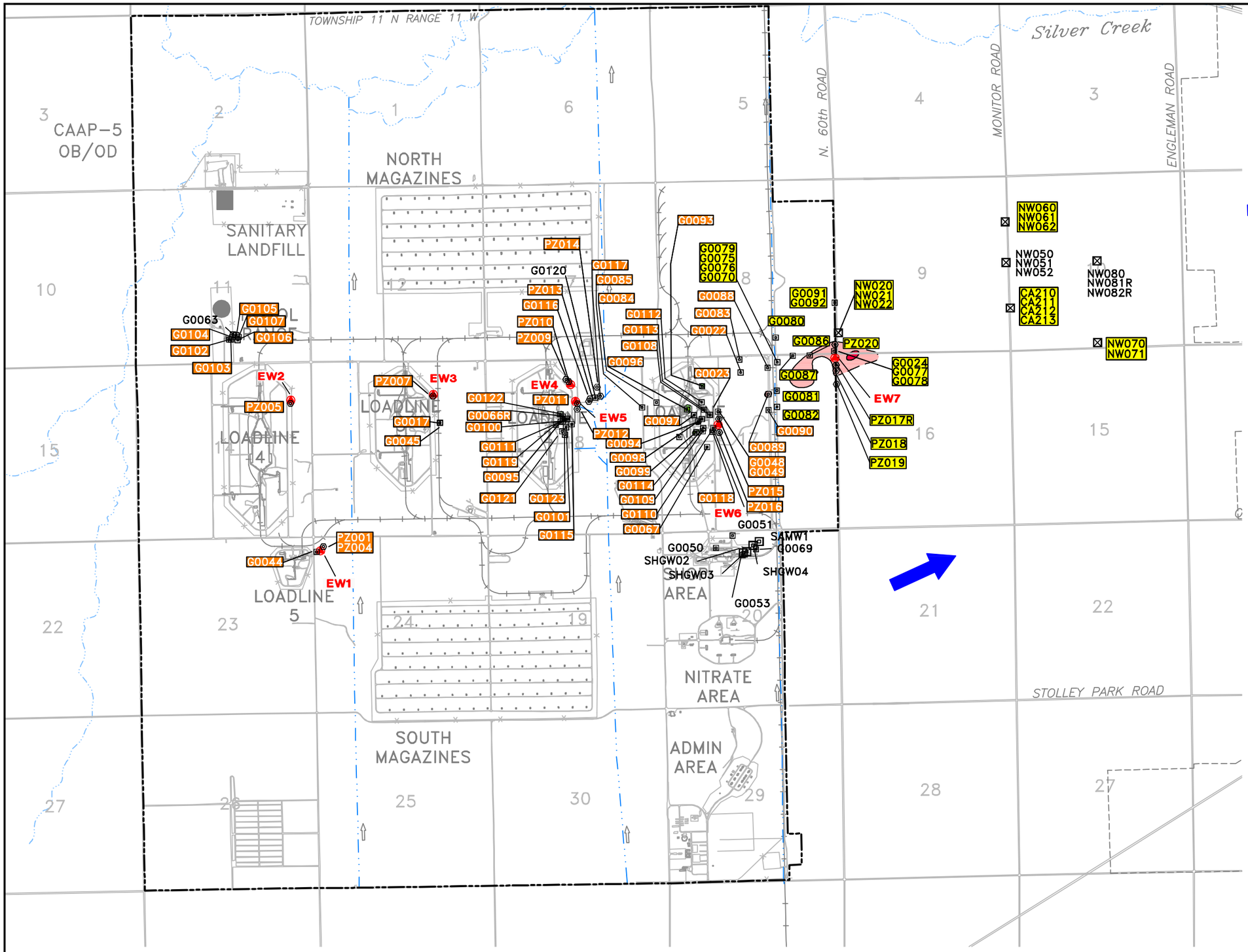
Notes:
< = less than LOQ
µg/L = micrograms per liter
CHAAP = Cornhusker Army Ammunition Plant
DL = detection limit
HAL = health advisory level
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
IDW = investigation-derived waste
J = estimated
LOD = limit of detection
LOQ = limit of quantification
MCL = maximum contaminant level
MNX = mono-nitroso-RDX
NA = not available
OU = Operable Unit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compounds
WC = waste characterization (water)

TABLE 2-8
SUMMARY OF EXPLOSIVES AND VOCs DETECTED, IDW - WATER
2021 ANNUAL REPORT

FIELD ID SAMPLE DATE	CHAAP HALs or MCLs	WC-Q6-JUNE21 6/6/2021				
		Result	Qual	DL	LOD	LOQ
Toluene	1000	<	U	0.17	0.4	1
Trans-1,2-Dichloroethene	100	<	U	0.15	0.8	1
Trans-1,3-Dichloropropene	NA	<	U	0.19	0.4	1
Trichloroethene	5	<	U	0.16	0.4	1
Trichlorofluoromethane	NA	<	U	0.29	0.4	1
Vinyl Chloride	2	<	U	0.1	0.8	2
Xylenes, Total	10000	0.25	J	0.19	0.2	1.5

Notes:

< = less than LOQ
µg/L = micrograms per liter
CHAAP = Cornhusker Army Ammunition Plant
DL = detection limit
HAL = health advisory level
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
IDW = investigation-derived waste
J = estimated
LOD = limit of detection
LOQ = limit of quantification
MCL = maximum contaminant level
MNX = mono-nitroso-RDX
NA = not available
OU = Operable Unit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compounds
WC = waste characterization (water)



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- INACTIVE GROUNDWATER EXTRACTION WELL
- G0121 — OU1 GROUNDWATER SAMPLING LOCATIONS – ANNUAL (MAY 2021)
- G0086 — OU1 GROUNDWATER SAMPLING LOCATIONS – OU1 REBOUND STUDY (MAY/JUNE 2021)
- GENERAL GROUNDWATER FLOW DIRECTION
- ROADS
- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- SURFACE DRAINAGE
- (281) STATE ROUTE
- 30 U.S. ROUTE
- 2 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (TNT CONCENTRATIONS >2µg/L) MAY/JUNE 2021
- 20 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (TNT CONCENTRATIONS >20µg/L) MAY/JUNE 2021
- 2 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) MAY/JUNE 2021
- 20 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) MAY/JUNE 2021

NOTE: EXPLOSIVES PLUME BASED ON 2021 SAMPLE RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

N

0 3000 6000

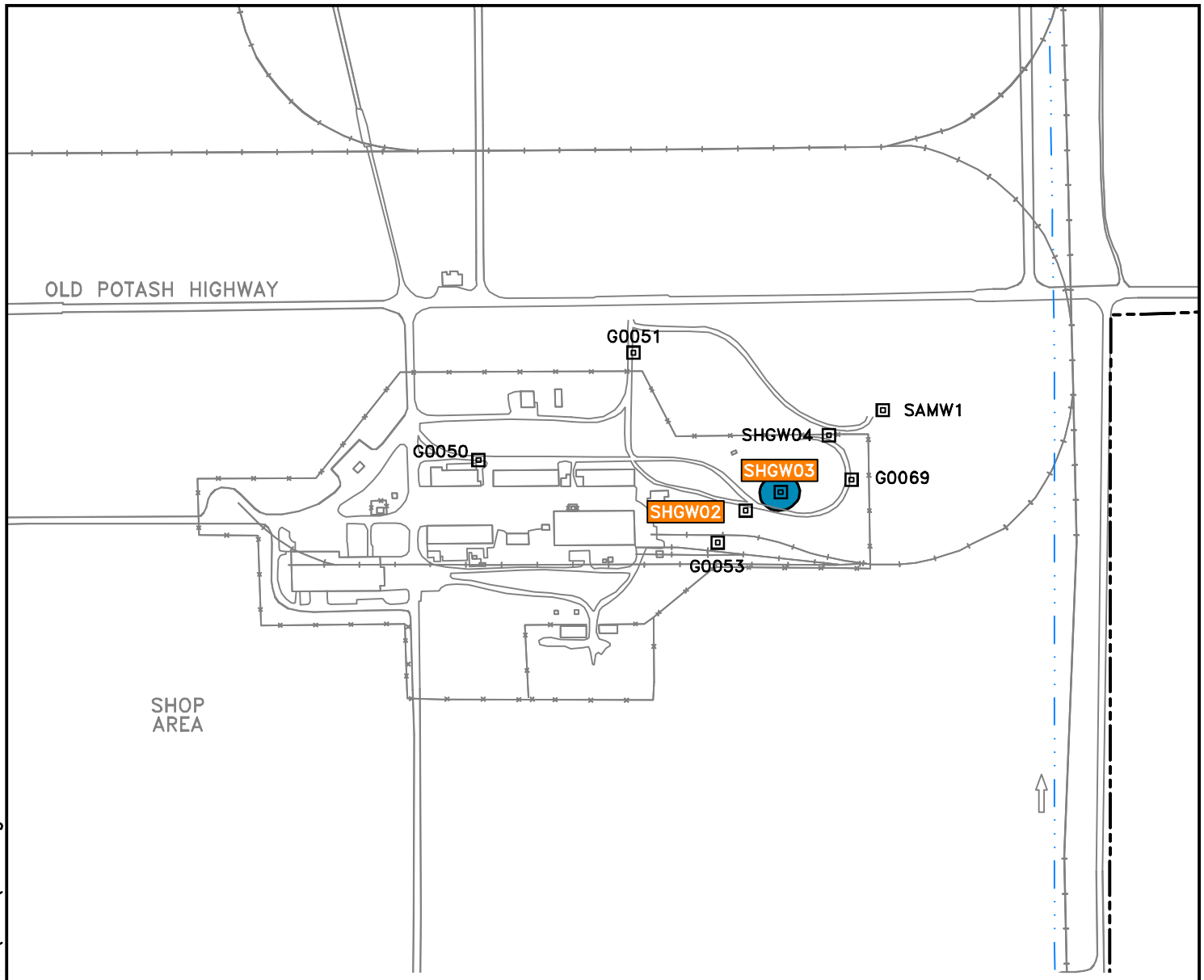
SCALE FEET

Bruce ENGINEERING AECOM

2021 WELL SAMPLING LOCATIONS MAP
OFF-POST/ON-POST (OU1)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 2-1
CHK'D. BY: DC	DATE: 08/30/21		

September 14, 2021 2:29:50 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\2-1.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCLs (1,1,2-TCA MCL IS 5 µg/L)
- SHGW02 OU3 GROUNDWATER SAMPLING LOCATIONS – ANNUAL (MAY 2021)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2-TCA = 1,1,2-TRICHLOROETHANE
MCL = MAXIMUM CONTAMINANT LEVEL
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND

0 500 1000
SCALE FEET

N

Bruce ENGINEERING AECOM

2021 WELL SAMPLING LOCATIONS MAP SHOP AREA (OU3)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 2-2
CHK'D. BY: DC	DATE: 08/30/21		

September 14, 2021 2:30:51 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\2-2.dwg

3.1 GROUNDWATER LEVELS

The following sections summarize the May 2021 groundwater level data for OU1/OU3.

3.1.1 OU1 (Groundwater Explosives Plume) Water Level Round

OU1 groundwater levels were measured at off-post monitoring wells and on-post monitoring wells and piezometers on May 18, 2021. Select shallow and shallow-intermediate monitoring well water levels were used to construct the OU1 water table elevation map, shown on **Figure 3-1**. Groundwater level measurements were completed in as short a time period as practical to minimize the effects of water table fluctuations. OU1 off-post and on-post water levels are presented in **Table 3-1**. **Table 3-1** also includes groundwater levels at six observation wells (for existing but non-operating extraction wells) used for site-wide water level interpretation. During the 2021 water level measurement round, multiple wells (six additional observations wells, six OU1 off-site monitoring wells, one OU1 on-post monitoring well, and extraction well EW7) were not measured for groundwater elevations based on a variety of reasons, as presented in **Table 3-1**. Groundwater elevations ranged from 1878.27 to 1885.13 feet above msl in off-post monitoring wells and 1885.24 to 1905.00 feet above msl in on-post wells, piezometers, and observation wells.

OU1 groundwater elevations decreased approximately 1 to 4 feet site wide from June 2020 to May 2021, with an average decrease in groundwater elevation at off-post wells of approximately 2.60 feet and 2.81 feet at on-post wells. Groundwater elevation trends are shown on **Figure 3-2**, which shows groundwater elevation measurements made at two groups of monitoring wells during annual events from March 2000 to May 2021. The first group of monitoring wells was selected from shallow on-post "G00" wells and on-post piezometers that are in line with the groundwater flow direction spanning the on-post area (from southwest to northeast: G0044, PZ001, G0017, PZ007, PZ009, PZ011, PZ014, G0023, PZ015, G0022, G0075, and G0024). The second group of monitoring wells selected is from the off-post area and includes shallow "NW" monitoring wells and shallow "CA" monitoring wells (except well cluster CA210). Although, since approximately 2014, groundwater elevations at the site have generally been increasing (**Figure 3-2**).

As was the case in 2019 and 2020, no monitoring wells were found to be dry during the 2021 OU1/OU3 annual groundwater monitoring event. The following bullets indicate the number of dry wells identified during each annual sampling event.

- 2019 to 2021 – 0 dry wells
- 2018 – 1 dry well
- 2016 and 2017 – 2 dry wells
- 2015 – 3 dry wells
- 2014 – 5 dry wells
- 2013 – 3 dry wells
- 2009-2012 – 0 dry wells

- 2008 – 3 dry wells
- 2006 and 2007 – 11 dry wells

3.1.2 OU3 (Shop Area) Water Level Round

OU3 groundwater elevations were measured at eight monitoring wells in the Shop Area on May 18, 2021. Groundwater elevations measured at all eight shallow monitoring wells, which are outside the influence of EW7 and the OU1 injection activities, were used to construct the Shop Area water table map (also shown on **Figure 3-1**). The groundwater elevations for May 2021 are presented in **Table 3-1**. Shallow groundwater elevations ranged from 1891.21 to 1892.72 feet above msl. Groundwater elevations at OU3 decreased approximately 1 to 2 feet, with an average decrease in groundwater elevation from June 2020 to May 2021 of approximately 1.45 feet. Although, since approximately 2014, groundwater elevations at the site have generally been increasing.

3.2 HYDRAULIC GRADIENTS

The following sections summarize May 2021 hydraulic gradients at OU1/OU3.

3.2.1 OU1 (Groundwater Explosives Plume) Hydraulic Gradients

Figure 3-1 presents an interpreted water table elevation map based on the May 2021 OU1 groundwater elevation data from wells screened at or near the water table surface. The water table map indicates groundwater generally flows to the northeast from CHAAP toward the City of Grand Island. Local horizontal hydraulic gradients were calculated using groundwater elevations from select OU1 on-post and off-post monitoring wells. An average horizontal hydraulic gradient of about 0.001 foot per foot (ft/ft) was calculated from the May 2021 groundwater data. The average horizontal gradient and flow direction derived from the May 2021 groundwater measurements were similar to those measured from December 1996 through June 2020.

Well clusters (G0017/G0045, G0048/G0049, G0079/G0076, G0024/G0078, G0091/G0092, NW020/NW022, and CA210/CA212) at the axis of the historic groundwater explosives plume showed minor hydraulic head differences between wells screened in the top of the Grand Island Formation and those screened in the middle or base of the Grand Island Formation. Well pairs G0048/G0049, G0079/G0076 and NW020/NW022 exhibited downward gradients averaging 0.0007 ft/ft; and well pairs G0017/G0045, G0024/G0078, G0091/G0092, and CA210/CA212 exhibited upward gradients averaging 0.0033 ft/ft.

Hydraulic head differences were also measured in the well clusters with wells screened within the Grand Island Formation and the Holdrege Formation (G0079/G0070 and CA210/CA213). The hydraulic head differences for well pair G0079/G0070 exhibited a downward gradient of 0.0013 ft/ft and well pair CA210/CA213 exhibited a downward gradient of 0.1559 ft/ft. Although these downward gradients were identified in 2021 using a smaller data set (i.e., two well pairs), historically the average vertical gradient between the Grand Island and Holdrege Formations has been upward (i.e., 2019 and prior with five or more well pairs).

Based on historic water levels measurements in the deep monitoring wells (prior to their abandonment), the general groundwater flow direction in the underlying Holdrege Formation aquifer has maintained a northeasterly component similar to the overlying Grand Island Formation aquifer.

3.2.2 OU3 (Shop Area) Hydraulic Gradients

Figure 3-1 presents the interpreted water table elevation map based on the May 2021 OU3 water level data. The water table map indicates groundwater flows to the northeast. Local horizontal hydraulic gradients were calculated using water level elevations from selected OU3 monitoring wells. An average horizontal hydraulic gradient of 0.0008 ft/ft to the northeast was calculated from the May 2021 groundwater data. This average horizontal gradient and flow direction were similar to those measured in previous events.

3.3 GROUNDWATER FLOW VELOCITIES

Assuming an estimated effective porosity of 20 percent, average horizontal hydraulic gradient of 0.001 ft/ft, and hydraulic conductivity averaging 300 to 400 feet per day (URS 2001), in May 2021 the average linear groundwater flow velocity for the shallow Grand Island Formation aquifer at CHAAP (without EW7 pumping) is 550 to 730 feet per year.

TABLE 3-1
WATER LEVEL MEASUREMENTS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location ID	Top of Casing Elevation[1] (ft amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (ft bgs)	Well Depth (ft btoc)	May Water Levels 2021		
					Date Measured	Depth to Water (ft btoc)	Water Level Elevation[1] (ft amsl)
OU1 Off-Post Monitoring Wells							
CA210	1888.15	1886.65	5-15	16.80	5/18/2021	9.08	1879.07
CA211	1888.22	1886.44	30-40	42.75	5/18/2021	9.15	1879.07
CA212	1888.17	1886.09	54-64	67.00	5/18/2021	9.10	1879.07
CA213	1888.07	1886.14	77-87	92.00	5/18/2021	9.80	1878.27
NW020	1898.51	1895.78	15-25	27.95	5/18/2021	13.40	1885.11
NW021	1898.76	1895.90	37-42	45.75	5/18/2021	13.63	1885.13
NW022	1898.68	1896.00	59-64	67.00	5/18/2021	13.55	1885.13
NW050	1887.20	1887.50	10-20	NM	NM	NM	NM
NW051	1887.38	1887.50	30-35	NM	NM	NM	NM
NW052	1886.77	1887.50	55-60	NM	NM	NM	NM
NW060	1889.18	1889.50	10-20	20.01	5/18/2021	11.09	1878.09
NW061	1888.80	1889.50	40-45	45.20	5/18/2021	10.73	1878.07
NW062	1888.97	1889.50	58-63	63.80	5/18/2021	10.90	1878.07
NW070	1884.77	1885.00	10-20	20.60	5/18/2021	8.00	1876.77
NW071	1884.59	1885.00	55-60	60.20	5/18/2021	7.81	1876.78
NW080	1885.28	1882.31	8-18	NM	NM	NM	NM
NW081R	1884.85	1882.08	35-45	NM	NM	NM	NM
NW082R	1884.86	1882.08	46-56	NM	NM	NM	NM
OU1 On-Post Wells (Between EW6 and EW7)							
G0022	1899.16	1896.40	18-33	35.04	5/18/2021	10.55	1888.61
G0024	1896.00	1893.10	16-31	33.34	5/18/2021	10.64	1885.36
G0070	1901.31	1898.80	75-80	82.80	5/18/2021	14.00	1887.31
G0075	1901.22	1899.20	25-35	37.72	5/18/2021	13.97	1887.25
G0076	1901.02	1898.90	54-64	65.29	5/18/2021	13.78	1887.24
G0077	1896.38	1893.90	25-35	37.73	5/18/2021	11.01	1885.37
G0078	1896.34	1894.10	50-60	62.82	5/18/2021	10.98	1885.36
G0079	1901.42	1899.00	8-18	19.65	5/18/2021	14.19	1887.23
G0080	1899.38	1896.80	25-35	37.80	5/18/2021	12.50	1886.88
G0081	1901.60	1899.10	28-38	41.30	5/18/2021	13.89	1887.71

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from top of casing.

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

EW = extraction well

ft = feet

ID = identification number

NA = not available

NM = not measured.Wells not measured for water levels are no longer part of monitoring program (NW050 and NW080 clusters), not in operation (EW7), inadvertently not measured (observation wells), or not accessible (G0120).

OU = Operable Unit

OW = observation well

PZ = piezometer

TABLE 3-1
WATER LEVEL MEASUREMENTS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location ID	Top of Casing Elevation[1] (ft amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (ft bgs)	Well Depth (ft btoc)	May Water Levels 2021		
					Date Measured	Depth to Water (ft btoc)	Water Level Elevation[1] (ft amsl)
G0082	1901.17	1898.70	28-38	41.03	5/18/2021	13.19	1887.98
G0083	1897.86	1895.40	21-31	33.46	5/18/2021	9.47	1888.39
G0086	1897.25	1895.80	28-38	40.29	5/18/2021	11.00	1886.25
G0087	1898.00	1895.70	25-35	37.60	5/18/2021	11.40	1886.60
G0088	1898.44	1896.00	25-35	37.30	5/18/2021	10.88	1887.56
G0089	1899.75	1897.30	25-35	38.05	5/18/2021	11.82	1887.93
G0090	1899.90	1897.30	25-35	37.55	5/18/2021	11.73	1888.17
G0091	1896.88	1894.80	20-30	31.89	5/18/2021	11.62	1885.26
G0092	1897.02	1894.70	40-50	52.78	5/18/2021	11.78	1885.24
PZ017R	1895.17	1892.90	10-30	32.40	5/18/2021	9.70	1885.47
PZ018	1896.88	1894.70	10-30	31.93	5/18/2021	11.31	1885.57
PZ019	1901.30	1898.90	10-30	32.22	5/18/2021	15.45	1885.85
PZ020	1899.25	1897.00	10-30	32.32	5/18/2021	14.00	1885.25
EW7	1895.95	1894.00	15-55	NM	NM	NM	NM
EW7 - OW7A	1896.19	1894.10	25-50	NM	NM	NM	NM
EW7 - OW7B	1896.53	1894.03	25-50	NM	NM	NM	NM
EW7 - OW7C	1894.48	1893.82	25-50	NM	NM	NM	NM
OU1 On-Post Wells (Load Line 1)							
G0023	1901.71	1899.00	19-34	35.90	5/18/2021	11.57	1890.14
G0048	1900.80	1899.00	6-16	17.95	5/18/2021	10.65	1890.15
G0049	1901.28	1899.30	46-56	58.42	5/18/2021	11.08	1890.20
G0067	1901.47	1899.60	5-20	22.47	5/18/2021	10.23	1891.24
G0084	1906.97	1904.60	20-30	32.86	5/18/2021	15.28	1891.69
G0093	1899.47	1897.14	20-30	32.10	5/18/2021	9.13	1890.34
G0094	1903.72	1901.47	15-25	27.50	5/18/2021	12.66	1891.06
G0096	1905.94	1903.30	15-25	27.91	5/18/2021	13.72	1892.22
G0097	1903.62	1901.10	15-25	27.80	5/18/2021	12.58	1891.04
G0098	1903.23	1900.60	15-25	27.82	5/18/2021	12.34	1890.89
G0099	1903.36	1900.70	15-25	27.47	5/18/2021	11.95	1891.41
G0108	1902.84	1900.20	15-25	27.70	5/18/2021	12.24	1890.60
G0109	1901.24	1898.90	15-25	27.70	5/18/2021	10.05	1891.19

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from top of casing.

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

EW = extraction well

ft = feet

ID = identification number

NA = not available

NM = not measured.Wells not measured for water levels are no longer part of monitoring program (NW050 and NW080 clusters), not in operation (EW7), inadvertently not measured (observation wells), or not accessible (G0120).

OU = Operable Unit

OW = observation well

PZ = piezometer

TABLE 3-1
WATER LEVEL MEASUREMENTS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location ID	Top of Casing Elevation[1] (ft amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (ft bgs)	Well Depth (ft btoc)	May Water Levels 2021		
					Date Measured	Depth to Water (ft btoc)	Water Level Elevation[1] (ft amsl)
G0110	1901.91	1899.00	15-25	28.33	5/18/2021	11.28	1890.63
G0112	1901.06	1898.02	15-25	27.92	5/18/2021	10.51	1890.55
G0113	1903.06	1900.11	15-25	28.00	5/18/2021	12.38	1890.68
G0114	1901.92	1899.19	15-25	27.02	5/18/2021	10.91	1891.01
G0118	1901.28	1898.66	15-25	27.64	5/18/2021	10.48	1890.80
PZ015	1901.71	1899.60	10-30	32.80	5/18/2021	11.45	1890.26
PZ016	1901.62	1899.40	10-30	32.80	5/18/2021	11.10	1890.52
EW6-OW6A	1902.68	1900.18	29-54	NM	NM	NM	NM
EW6-OW6B	1902.70	1900.20	29-54	NM	NM	NM	NM
EW6-OW6C	1902.96	1900.46	29-54	NM	NM	NM	NM
OU1 On-Post Wells (Load Line 2)							
G0066R	1909.49	1907.50	20-30	32.59	5/18/2021	14.30	1895.19
G0085	1905.79	1903.50	20-30	33.01	5/18/2021	13.42	1892.37
G0095	1910.24	1908.60	15-25	27.08	5/18/2021	14.24	1896.00
G0100	1910.46	1907.80	15-25	27.82	5/18/2021	15.25	1895.21
G0101	1910.64	1907.90	15-25	27.91	5/18/2021	15.50	1895.14
G0111	1911.94	1909.60	15-25	27.55	5/18/2021	16.92	1895.02
G0115	1908.41	1906.57	20-30	32.25	5/18/2021	13.36	1895.05
G0116	1904.19	1901.86	20-30	33.19	5/18/2021	10.65	1893.54
G0117	1905.50	1902.73	20-30	32.02	5/18/2021	11.75	1893.75
G0119	1909.16	1906.29	20-30	32.40	5/18/2021	13.71	1895.45
G0120	1904.91	1902.30	20-30	NM	NM	NM	NM
G0121	1909.10	1905.95	20-30	32.30	5/18/2021	13.43	1895.67
G0122	1909.68	1906.57	20-30	32.80	5/18/2021	14.87	1894.81
G0123	1908.65	1905.78	20-30	32.00	5/18/2021	13.37	1895.28
PZ009	1907.02	1904.90	10-30	32.89	5/18/2021	12.70	1894.32
PZ010	1907.31	1905.30	10-30	32.88	5/18/2021	13.02	1894.29
PZ011	1906.56	1904.90	10-30	32.85	5/18/2021	12.19	1894.37
PZ012	1906.92	1904.70	10-30	32.85	5/18/2021	12.55	1894.37
PZ013	1905.29	1902.30	10-30	32.89	5/18/2021	11.38	1893.91
PZ014	1905.21	1903.10	10-30	32.86	5/18/2021	11.81	1893.40

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from top of casing.

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

EW = extraction well

ft = feet

ID = identification number

NA = not available

NM = not measured.Wells not measured for water levels are no longer part of monitoring program (NW050 and NW080 clusters), not in operation (EW7), inadvertently not measured (observation wells), or not accessible (G0120).

OU = Operable Unit

OW = observation well

PZ = piezometer

TABLE 3-1
WATER LEVEL MEASUREMENTS OU1/OU3
2021 ANNUAL REPORT

					May Water Levels 2021		
Groundwater Measurement Location ID	Top of Casing Elevation[1] (ft amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (ft bgs)	Well Depth (ft btoc)	Date Measured	Depth to Water (ft btoc)	Water Level Elevation[1] (ft amsl)
EW4-OW4A	1909.85	1907.35	31-51	53.00	5/18/2021	14.50	1895.35
EW4-OW4B	1910.11	1907.61	31-51	53.46	5/18/2021	15.98	1894.13
EW4-OW4C	1909.91	1907.41	31-51	53.26	5/18/2021	16.11	1893.80
EW5-OW5A	1907.88	1905.38	29-59	60.85	5/18/2021	13.55	1894.33
EW5-OW5B	1908.38	1905.88	29-59	61.05	5/18/2021	14.70	1893.68
EW5-OW5C	1908.11	1905.61	29-59	60.93	5/18/2021	13.85	1894.26
OU1 On-Post Wells (Load Line 3)							
G0017	1910.60	1907.90	16-31	33.95	5/18/2021	11.42	1899.18
G0045	1910.10	1908.30	45-55	58.56	5/18/2021	10.96	1899.14
PZ007	1909.49	1907.50	10-30	32.80	5/18/2021	10.77	1898.72
OU1 On-Post Wells (Load Line 4)							
PZ005	1916.09	1913.59	10-30	32.90	5/18/2021	12.53	1903.56
OU1 On-Post Wells (Load Line 5)							
PZ001	1918.60	1915.80	10-30	32.85	5/18/2021	13.91	1904.69
PZ004	1916.69	1913.79	10-30	32.90	5/18/2021	12.07	1904.62
G0044	1918.95	1916.15	11-26	28.29	5/18/2021	13.95	1905.00
OU1 On-Post Wells (Decant Station)							
G0063	1910.75	1908.54	3-18	21.01	5/18/2021	8.40	1902.35
G0102	1912.20	1908.91	14-24	28.14	5/18/2021	9.48	1902.72
G0103	1912.31	1908.92	14-24	28.20	5/18/2021	9.65	1902.66
G0104	1911.55	1908.74	15-25	28.00	5/18/2021	8.95	1902.60
G0105	1911.41	1908.28	15-25	28.15	5/18/2021	9.03	1902.38
G0106	1912.15	1909.29	15-25	28.04	5/18/2021	9.59	1902.56
G0107	1911.38	1908.36	15-25	28.22	5/18/2021	8.93	1902.45
OU3 Wells (Shop Area)							
G0050	1902.29	1900.60	NA	25.29	5/18/2021	9.57	1892.72
G0051	1902.22	1900.40	NA	25.44	5/18/2021	10.20	1892.02
G0053	1902.88	1901.10	NA	25.13	5/18/2021	11.01	1891.87
G0069	1900.02	1898.10	NA	25.18	5/18/2021	8.71	1891.31
SAMW1	1899.91	1899.91	NA	20.11	5/18/2021	8.70	1891.21

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from top of casing.

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

EW = extraction well

ft = feet

ID = identification number

NA = not available

NM = not measured.Wells not measured for water levels are no longer part of monitoring program (NW050 and NW080 clusters), not in operation (EW7), inadvertently not measured (observation wells), or not accessible (G0120).

OU = Operable Unit

OW = observation well

PZ = piezometer

TABLE 3-1
WATER LEVEL MEASUREMENTS OU1/OU3
2021 ANNUAL REPORT

					May Water Levels 2021		
Groundwater Measurement Location ID	Top of Casing Elevation[1] (ft amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (ft bgs)	Well Depth (ft btoc)	Date Measured	Depth to Water (ft btoc)	Water Level Elevation[1] (ft amsl)
SHGW02	1902.50	1902.50	6-21	24.11	5/18/2021	10.78	1891.72
SHGW03	1901.33	1901.33	6-21	23.66	5/18/2021	9.75	1891.58
SHGW04	1899.82	1899.82	16-21	23.04	5/18/2021	8.54	1891.28

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from top of casing.

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

EW = extraction well

ft = feet

ID = identification number

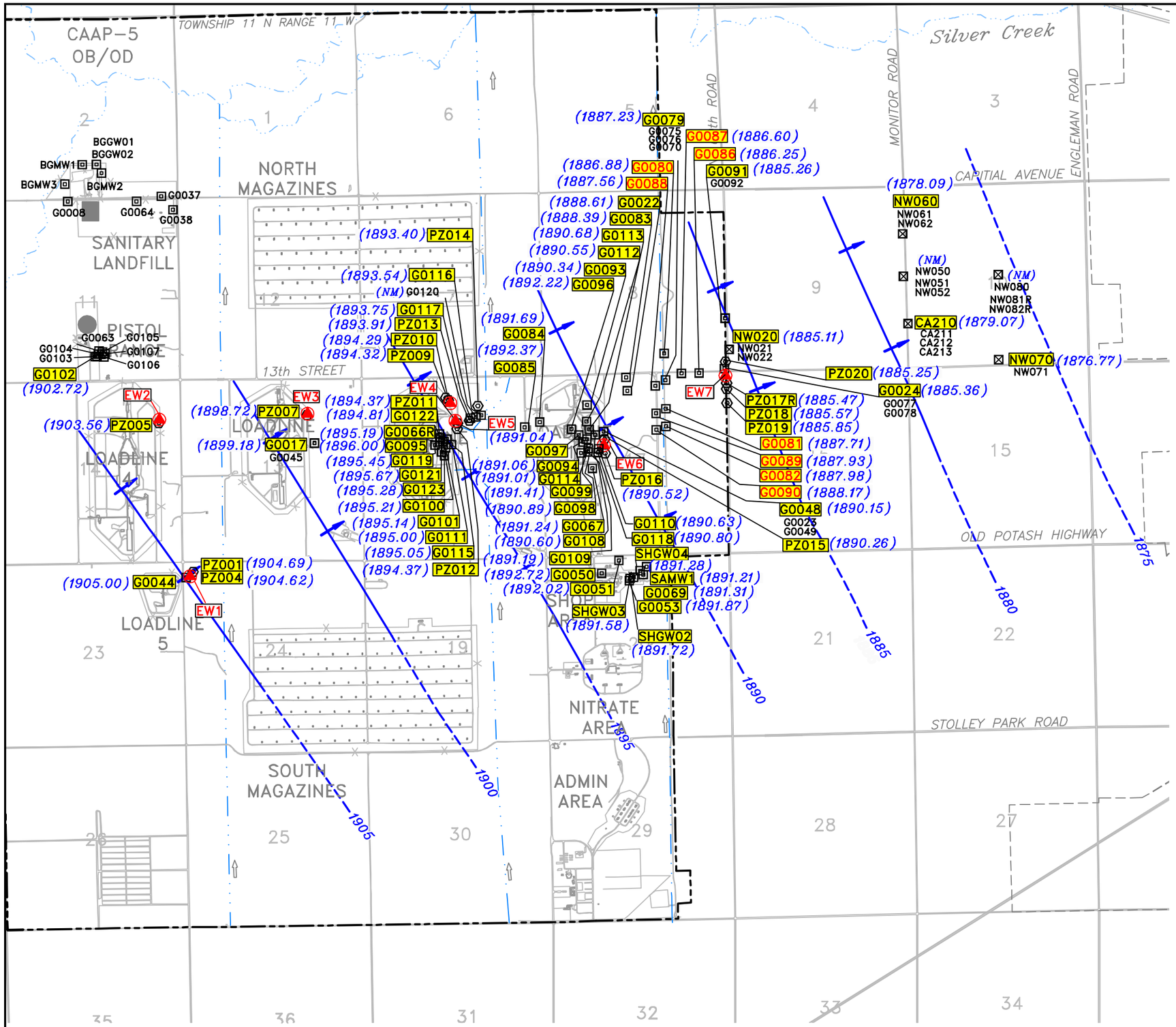
NA = not available

NM = not measured.Wells not measured for water levels are no longer part of monitoring program (NW050 and NW080 clusters), not in operation (EW7), inadvertently not measured (observation wells), or not accessible (G0120).

OU = Operable Unit

OW = observation well

PZ = piezometer



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- INACTIVE GROUNDWATER EXTRACTION WELL
- G0029 — SHALLOW WATER TABLE SURFACE WELLS MEASURED TO CONSTRUCT THE MAP (TOP GRAND ISLAND FORMATION)
- G0033 — SHALLOW–INTERMEDIATE WELLS MEASURED TO CONSTRUCT THE MAP (MIDDLE GRAND ISLAND FORMATION)
- ROADS
- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- SURFACE DRAINAGE
- —1890— WATER TABLE ELEVATION CONTOURS – MAY 2021 (FEET ABOVE MEAN SEA LEVEL)
- INFERRED WATER TABLE ELEVATION CONTOURS – MAY 2021 (FEET ABOVE MEAN SEA LEVEL)
- INTERPRETED GROUNDWATER FLOW DIRECTION
- 1 SECTION NUMBER
- NM NOT MEASURED

N

0 4000 8000

SCALE FEET

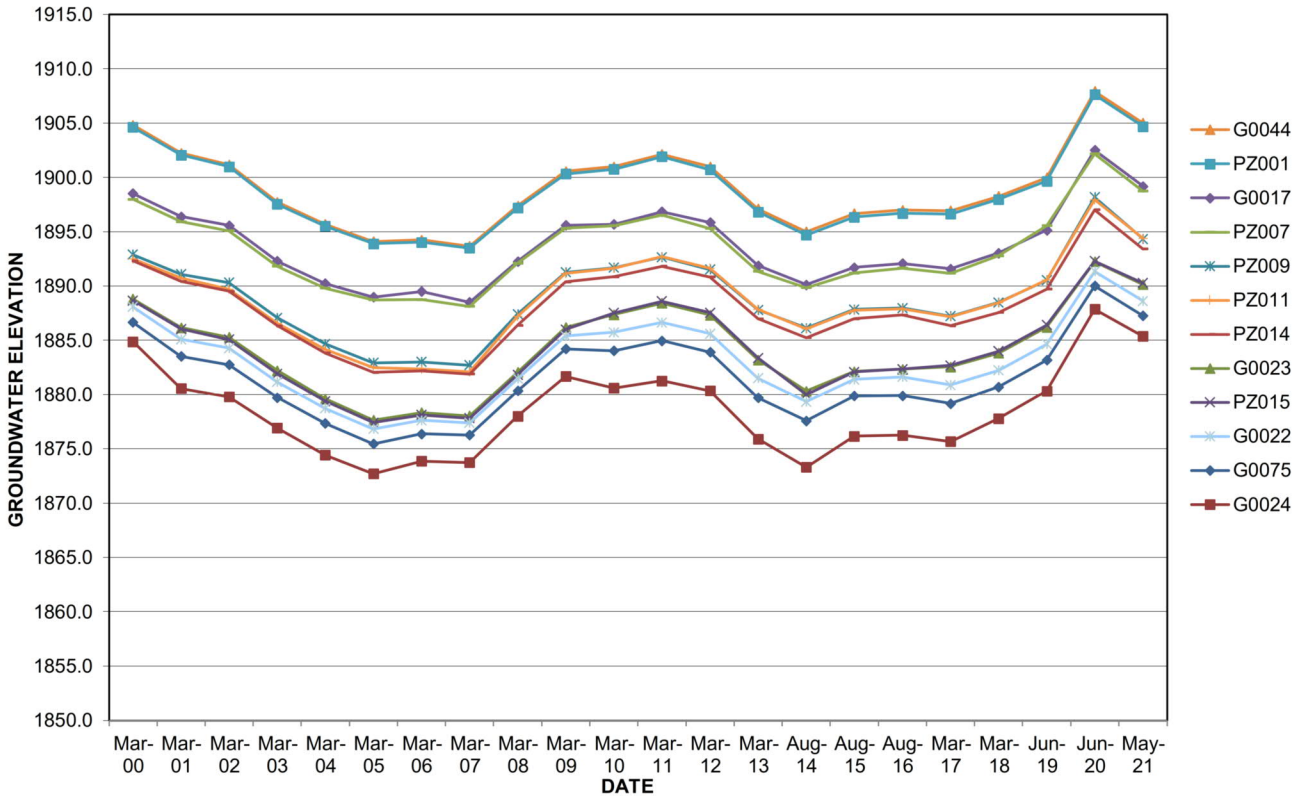
Bruce ENGINEERING AECOM

WATER TABLE ELEVATION MAP – MAY 2021
CORNHUSKER ARMY AMMUNITION PLANT

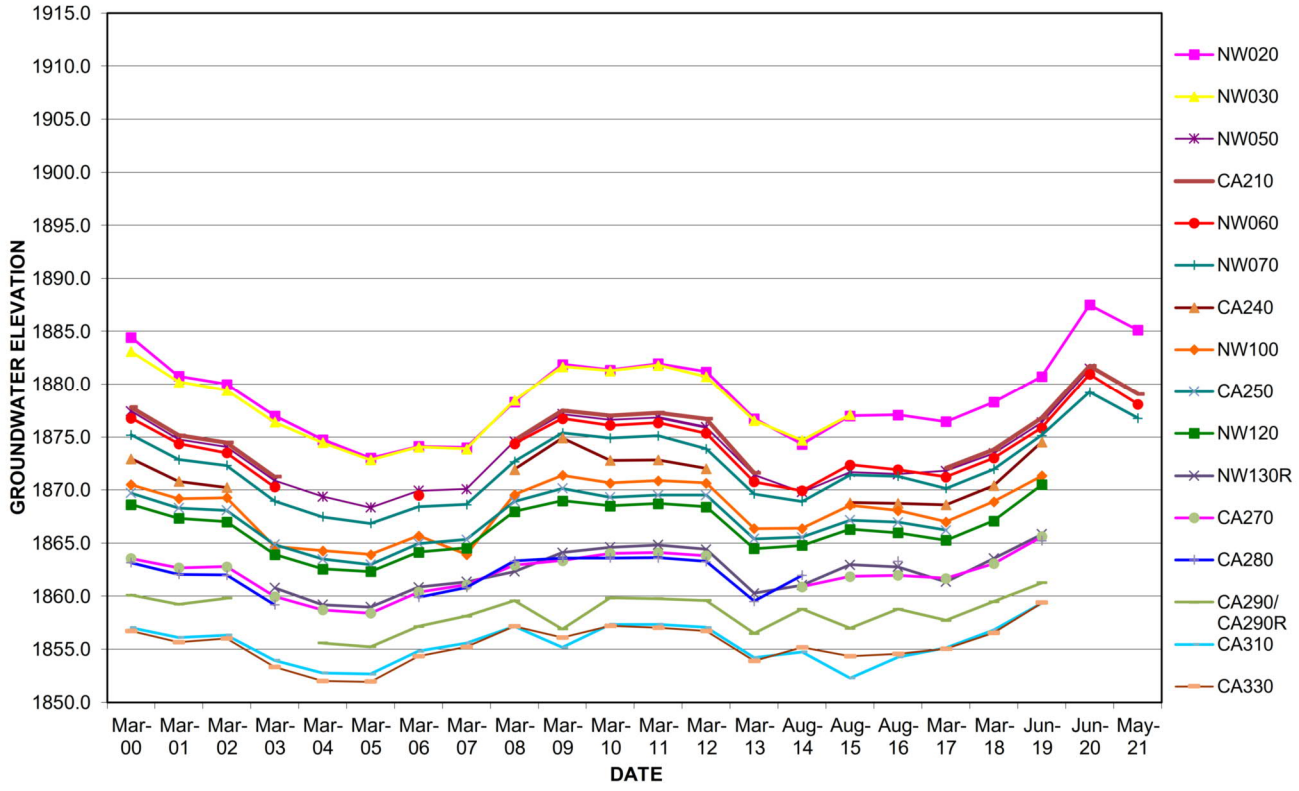
DRN. BY: DPG	DATE: 09/21/20	PROJECT NO. 60565355	FIG. NO. 3–1
CHK'D. BY: KW	DATE: 09/21/20		

September 14, 2021 11:18:32 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\3-1.dwg

SELECTED SHALLOW ON-POST WELLS



SELECTED SHALLOW OFF-POST WELLS



Brice ENGINEERING

AECOM

GROUNDWATER ELEVATION TRENDS IN SELECTED SHALLOW MONITORING WELLS
MARCH 2000 TO MAY 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 09/14/21	PROJECT NO. 60565355	FIG. NO. 3-2
CHK'D. BY: DC	DATE: 09/14/21		

Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\3-2.dwg September 14, 2021 1:04:57 p.m.

4.1 DATA QUALITY REVIEW/VALIDATION PROCESS

Groundwater samples for the OU1 annual sampling event were analyzed in accordance with the Final Addendum 2, UFP-QAPP (Brice-AECOM 2018) for explosives (USEPA Method 8330A) and laboratory MNA parameters: alkalinity (standard method [SM] 2320B, calculated from bicarbonate), ammonia (USEPA Method 350.1), nitrate/nitrite (USEPA Method 353.2), sulfate (USEPA Method 9056A, as ion concentrations), sulfide (USEPA Method 9034), TKN (USEPA Method 351.2), DOC (USEPA Method 9060), and methane (Method RSK-175) by Eurofins-TestAmerica Laboratory (see **Tables 2-1** and **2-2**). Four field duplicate samples were collected and submitted to the laboratory for analysis to assess both field and laboratory precision. Analytical results for the OU1 field duplicate sample pairs are presented in **Table 4-1a**.

Groundwater samples for the OU3 Shop Area annual sampling event were analyzed in accordance with the Final Addendum 2, UFP-QAPP (Brice-AECOM 2018) for VOCs (USEPA Methods 8260B); and laboratory MNA parameters: alkalinity, nitrate/nitrite, sulfate, and methane, ethane, ethene (RSK-175) by Eurofins-TestAmerica Laboratory. The groundwater sample from SHGW03 was also analyzed for TPH-DRO (USEPA Method 8015B) (see **Table 2-3**). One field duplicate sample was collected and submitted to the laboratory for analysis to assess both field and laboratory precision. Analytical results for the OU3 field duplicate sample pair are presented in **Table 4-1b**.

Analytical data were reviewed and verified in accordance with the Final Addendum 2, UFP-QAPP (Brice-AECOM 2018). The data review process included evaluations of the following elements, as required, including validation of raw data by an AECOM chemist. The validation software ADR.NET was used to supplement the manual validation.

- Laboratory case narrative/cooler receipt form
- Sample documentation
- Sample preservation and holding time compliance
- Instrument performance check (tuning)
- Initial calibration
- Initial calibration verification second source
- Second column confirmation
- Primary and secondary column relative percent difference (RPD)
- Continuing calibration verification (CCV)
- Internal standards
- Blank samples
- Laboratory control samples (LCS)
- Surrogate compounds

- MS/MSDs
- Field duplicates
- Sensitivity
- Additional qualifications, including professional judgment
- Completeness

4.2 ANALYTICAL RESULTS VERIFICATION

The laboratory data reports and complete ADR.NET and data verification reports are provided in **Appendix D** for the OU1/OU3 annual groundwater monitoring event. Qualifications applied to the analytical results based on the data review findings are included in **Table D-1** (**Appendix D**). Due to Quarter 6 (May/June 2021) OU1 Rebound Study and performance monitoring sampling events being completed concurrent with the OU1/OU3 annual sampling event, the laboratory data and verification reports and qualification summaries are provided cumulatively in **Appendix D** and **Table D-1.** However, the data quality review only discusses the OU1/OU3 annual sampling event results.

General trends regarding the data validation are as follows:

- Some explosives results for samples G0017-21A, G0066R-21A, G0075-21A, G0077-21A, G0081-21A, G0082-21A, G0086-21A, G0088-21A, G0090-21A, G0091-21A, G0094-21A, G0095-21A, G0096-21A, G0097-21A, G0099-21A, G0100-21A, G0102-21A, G0111-21A, G0112-21A, G0118-21A, G0296-21A, G0311-21A, PZ001-21A, PZ009-21A, PZ010-21A, PZ011-21A, PZ016-21A, PZ017R-21A, PZ018-21A, PZ020-21A, PZ021-21A were qualified as estimated or estimated nondetect (**J/UJ**) due to RPDs greater than (>) 40% between the primary and confirmation columns.
- The bromomethane result for sample Source 2021 and the chloroethane result for sample Water-WC-Q6-Jun21 were qualified as estimated nondetect (**UJ**) due to continuing calibration verification percent differences outside of evaluation criteria.
- The ammonia results for samples G0075-21A, PZ004-21A, PZ014-21A, and G0022-21A were qualified as nondetect (**U**) due to method blank contamination.
- The 4-amino-2,6-dinitrotoluene and TKN results for the duplicate pair G0096-21A / G0296-21A were qualified as **J/UJ** due to field duplicate RPDs outside of evaluation criteria.
- The 4-amino-2,6-dinitrotoluene results for the duplicate pair PZ017R-21A / PZ021-21A were qualified as **J** due to field duplicate RPDs outside of evaluation criteria.
- The methane results for the following samples were qualified as **J/UJ** due to the presence of headspace > six millimeters in the VOA vials: CA213-21A, NW060-21A, NW062-21A, G0045-21A, G0101-21A, G0104-21A, G0105-21A, G0106-21A, G0107-21A, G0119-21A.

- The sulfate results for samples PZ001-21A, and PZ007-21A G0112-21A, were qualified as **J** due to MS/MSD recoveries above evaluation criteria.
- All detected explosives were qualified as **J** due to surrogate recoveries above evaluation criteria for the samples G0122-21A and G0123-21A.
- The alkalinity results for sample G0296-21A was qualified as **J** due holding time exceedances.
- The 2-nitrotoluene, 2-amino-4,6-dinitrotoluene, 3-nitrotoluene, 4-amino-2,6-dinitrotoluene, 4-nitrotoluene, and nitrobenzene results for samples NW020-21A, NW021-21A, NW022-21A, NW023-21A, G0022-21A, G0023-21A, G0044-21A, G0048-21A, G0049-21A, G0066R-21A, G0067-21A, G0080-21A, G0083-21A, G0084-21A, G0087-21A, G0088-21A, G0091-21A, G0092-21A, G0093-21A, G0094-21A, G0095-21A, G0096-21A, G0097-21A, G0098-21A, G0099-21A, G0100-21A, G0101-21A, G0102-21A, G0103-21A, G0104-21A, G0105-21A, G0106-21A, G107-21A, G0108-21A, G109-21A, G0110-21A, G0111-21A, G0112-21A, G0113-21A, G0114-21A, G0115-21A, G0116-21A, G0117-21A, G0118-21A, G0119-21A, G0121-21A, G0122-21A, G0123-21A, G0296-21A, G0311-21A, PZ001-21A, PZ004-21A, PZ005-21A, PZ009-21A, PZ010-21A, PZ011-21A, PZ012-21A, PZ013-21A, PZ014-21A, PZ015-21A, PZ016-21A, PZ019-21A, Source 2021, Water-WC-Q6-June21 were qualified as **J/UJ** due to LCS/LCSD recoveries below evaluation criteria.
- The results for samples G0115-21A and G0123-21A were qualified as **J/UJ** due to a temperature exceedance (FedEx delivery delay).
- The sulfate results for samples SHGW02-21A and SHGW05-21A were qualified as **J** due to temperature exceedances (FedEx delivery delay).
- The following analytes for samples NW062-21A, G0017-21A, G0024-21A, G0045-21A, G0070-21A, G0077-21A, G0078-21A, G0086-21A, G0096-21A, G0103-21A, G0104-21A, G0105-21A, G0107-21A, PZ001-21A, PZ007-21A, PZ009-21A, PZ016-21A, PZ017R-21A, PZ018-21A, PZ019-21A, PZ020-21A, PZ021-21A were qualified as **J/UJ** due to MS/MSD recoveries below evaluation criteria: 2-nitrotoluene, 3-nitrotoluene, 2-amino-4,6-dinitrotoluene, 4-nitrotoluene, 4-amino-2,6-dinitrotoluene, methane, TKN, sulfide, sulfate, methane, nitrate-nitrite.
- The explosives results for the following samples were qualified as **J/UJ** due to surrogate recoveries below evaluation criteria: G0017-21A, G0086-21A, G0088-21A, G0094-21A, G0096-21A, G0097-21A, G0103-21A, G0108-21A, G0112-21A, G0116-21A, G0118-21A, G0121-21A, G0296-21A, Water-WC-Q6-Jun21.

4.3 CONCLUSIONS OF DATA AND QUALITY REVIEW

The analytical data for samples collected for the OU1/OU3 annual groundwater LTM event were found to be acceptable for their intended use based on the data validation and the automated data review. Completeness, defined to be the percentage of analytical results judged to be valid, including estimated data, was 100 percent for the sampling event. No analytical data were rejected

during the data validation. Generally, good precision was noted in the field duplicate samples for analytes reported above the laboratory level of quantitation's (LOQs).

TABLE 4-1a
SUMMARY OF OU1 FIELD DUPLICATE SAMPLE PAIRS
2021 ANNUAL REPORT

WELL NUMBER	NW020-21A											G0111									
FIELD ID	NW020-21A					NW023-21A						G0111-21A					G0311-21A				
SAMPLE DATE	5/25/2021					5/25/2021						5/24/2021					5/24/2021				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	RPD	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	RPD
EXPLOSIVES (USEPA Method 8330A) (µg/L)																						
1,3,5-Trinitrobenzene	<	U	0.086	0.2	0.21	<	U	0.082	0.2	0.2		4.6		0.08	0.19	0.2	4.8		0.081	0.19	0.2	4
1,3-Dinitrobenzene	<	U	0.038	0.1	0.11	<	U	0.036	0.098	0.11		1.7	J	0.035	0.095	0.1	1.8	J	0.036	0.097	0.11	<2x
TNT	0.93	J	0.046	0.1	0.11	0.88		0.044	0.098	0.11	<2x	6.6		0.043	0.095	0.1	6.8		0.043	0.097	0.11	3
2,4-Dinitrotoluene	<	U	0.028	0.082	0.1	<	U	0.027	0.078	0.098		0.44		0.026	0.076	0.095	0.45		0.026	0.077	0.097	<2x
2,6-Dinitrotoluene	<	U	0.041	0.082	0.1	<	U	0.039	0.078	0.098		<	U	0.038	0.076	0.095	<	U	0.039	0.077	0.097	
2-Amino-4,6-dinitrotoluene	1.3	J	0.052	0.1	0.11	1.2		0.049	0.098	0.11	<2x	4.9		0.048	0.095	0.1	5.2		0.049	0.097	0.11	6
2-Nitrotoluene	<	UJ	0.087	0.2	0.21	<	UJ	0.083	0.2	0.2		<	UJ	0.081	0.19	0.2	<	UJ	0.083	0.19	0.2	
3-Nitrotoluene	<	UJ	0.2	0.41	0.41	<	UJ	0.19	0.39	0.39		<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.39	0.39	
4-Amino-2,6-dinitrotoluene	1.3	J	0.059	0.12	0.15	1.2		0.056	0.12	0.15	<2x	6.8		0.055	0.11	0.14	6.6		0.056	0.12	0.14	3
4-Nitrotoluene	<	UJ	0.1	0.41	0.42	<	UJ	0.098	0.39	0.4		<	UJ	0.095	0.38	0.39	<	UJ	0.097	0.39	0.4	
HMX	1.4	J	0.09	0.2	0.21	1.3		0.085	0.2	0.2	<2x	<	U	0.083	0.19	0.2	<	U	0.085	0.19	0.2	
MNX	<	U	0.16	0.41	2	<	U	0.15	0.39	2		<	U	0.15	0.38	1.9	<	U	0.15	0.39	1.9	
Nitrobenzene	<	U	0.093	0.2	0.21	<	U	0.089	0.2	0.2		<	U	0.087	0.19	0.2	<	U	0.088	0.19	0.2	
RDX	1		0.053	0.2	0.21	0.99		0.05	0.2	0.2	<2x	6.5	J	0.049	0.19	0.2	6.2	J	0.05	0.19	0.2	5
Tetryl	<	U	0.033	0.1	0.11	<	U	0.031	0.098	0.11		<	U	0.03	0.095	0.1	<	U	0.031	0.097	0.11	
LABORATORY MNA PARAMETERS																						
Ammonia USEPA 350.1 (mg/L)	<	UJ	0.022	0.05	0.1	<	U	0.022	0.05	0.1		0.33		0.022	0.05	0.1	0.43		0.044	0.1	0.2	<2x
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1		1.9		0.69	1	1	1.5		0.69	1	1	<2x
Nitrate/Nitrite USEPA 353.2 (mg/L)	59	J	0.48	1.3	2.5	67		0.19	0.5	1	13	6.5		0.019	0.05	0.1	6.3		0.019	0.05	0.1	3
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	1.6	J	0.79	1.9	4	<2x	1.6	J	0.79	1.9	4	2.4	J	0.79	1.9	4	<2x
Sulfate USEPA 9056A (mg/L)	240		5.2	13	25	240		5.2	13	25	0	200		1	2.5	5	170		5.2	13	25	16
Dissolved Organic Carbon SM 9060A (mg/L)	6.9	J	0.35	0.8	1	6.8		0.35	0.8	1	1	8.2		0.35	0.8	1	9		0.35	0.8	1	9
Alkalinity SM 2320B (mg/L)	350		3.1	6.4	10	340		3.1	6.4	10	3	910		3.1	6.4	10	910		3.1	6.4	10	0
Methane RSK-175 (µg/L)	<	UJ	0.63	2	5	<	U	0.63	2	5		3400		0.63	2	5	3400		0.63	2	5	0
Carbon Dioxide SM 2320B (mg/L)[1]	156		3.1	6.4	10	151		3.1	6.4	10	3	404		3.1	6.4	10	404		3.1	6.4	10	0

Notes:

[1]Carbon dioxide back calculated from alkalinity.

field duplicate RPD >30 or >2X the LOQ

< = less than LOQ
µg/L = micrograms per liter
DL = detection limit
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MNA = monitored natural attenuation
MNX = mono-nitroso-RDX
OU = Operable Unit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RPD = relative percent difference
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
TNT = 2,4,6-trinitrotoluene
U = nondetect
USEPA = United States Environmental Protection Agency
X = times

TABLE 4-1a
SUMMARY OF OU1 FIELD DUPLICATE SAMPLE PAIRS
2021 ANNUAL REPORT

WELL NUMBER	G0096											PZ017R									
FIELD ID	G0096-21A					G0296-21A						PZ017R-21A					PZ021-21A				
SAMPLE DATE	5/25/2021					5/25/2021						5/26/2021					5/26/2021				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	RPD	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	RPD
EXPLOSIVES (USEPA Method 8330A) (µg/L)																						
1,3,5-Trinitrobenzene	<	UJ	0.083	0.2	0.21	<	UJ	0.083	0.2	0.21		1.1		0.088	0.21	0.22	1.2		0.083	0.2	0.21	9
1,3-Dinitrobenzene	<	UJ	0.037	0.099	0.11	<	UJ	0.036	0.099	0.11		<	U	0.038	0.1	0.11	<	U	0.036	0.099	0.11	
TNT	0.38	J	0.045	0.099	0.11	0.22	J	0.044	0.099	0.11	<2x	10		0.047	0.1	0.11	10		0.044	0.099	0.11	0
2,4-Dinitrotoluene	<	UJ	0.027	0.079	0.099	<	UJ	0.027	0.079	0.099		<	U	0.029	0.083	0.1	<	U	0.027	0.079	0.099	
2,6-Dinitrotoluene	<	UJ	0.04	0.079	0.099	<	UJ	0.04	0.079	0.099		0.36	J	0.042	0.083	0.1	0.32	J	0.04	0.079	0.099	<2x
2-Amino-4,6-dinitrotoluene	1.1	J	0.05	0.099	0.11	0.93	J	0.05	0.099	0.11	17	3		0.053	0.1	0.11	3.3		0.05	0.099	0.11	10
2-Nitrotoluene	<	UJ	0.085	0.2	0.21	<	UJ	0.084	0.2	0.21		<	UJ	0.089	0.21	0.22	<	UJ	0.085	0.2	0.21	
3-Nitrotoluene	<	UJ	0.19	0.4	0.4	0.31	J	0.19	0.39	0.39	<2x	<	UJ	0.2	0.42	0.42	<	UJ	0.19	0.4	0.4	
4-Amino-2,6-dinitrotoluene	1.7	J	0.057	0.12	0.15	<	UJ	0.057	0.12	0.15	>2x	2.7	J	0.06	0.13	0.16	4	J	0.057	0.12	0.15	39
4-Nitrotoluene	<	UJ	0.099	0.4	0.41	<	UJ	0.099	0.39	0.4		<	UJ	0.1	0.42	0.43	<	UJ	0.099	0.4	0.41	
HMX	39	J	0.87	2	2.1	35	J	0.86	2	2.1	11	1.6	J	0.091	0.21	0.22	1.6	J	0.087	0.2	0.21	0
MNX	<	UJ	0.15	0.4	2	<	UJ	0.15	0.39	2		<	U	0.16	0.42	2.1	<	U	0.15	0.4	2	
Nitrobenzene	<	UJ	0.09	0.2	0.21	<	UJ	0.09	0.2	0.21		<	U	0.095	0.21	0.22	<	U	0.09	0.2	0.21	
RDX	58	J	0.51	2	2.1	52	J	0.51	2	2.1	11	2.1		0.054	0.21	0.22	2.3		0.051	0.2	0.21	9
Tetryl	<	UJ	0.031	0.099	0.11	<	UJ	0.031	0.099	0.11		<	U	0.033	0.1	0.11	<	U	0.031	0.099	0.11	
LABORATORY MNA PARAMETERS																						
Ammonia USEPA 350.1 (mg/L)	4.3		0.044	0.1	0.2	4.4		0.022	0.05	0.1	2	0.033	J	0.022	0.05	0.1	0.028	J	0.022	0.05	0.1	<2x
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	6.1	J	0.69	1	1	3.9	J	0.69	1	1	44	<	U	0.69	1	1	<	U	0.69	1	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.8	J	0.019	0.05	0.1	6.5		0.019	0.05	0.1	5	24		0.48	1.3	2.5	23		0.48	1.3	2.5	4
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<2x	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<2x
Sulfate USEPA 9056A (mg/L)	72		1	2.5	5	64		5.2	13	25	<2x	81		1	2.5	5	82		1	2.5	5	1
Dissolved Organic Carbon SM 9060A (mg/L)	46		0.69	1.6	2	51		0.69	1.6	2	10	4.2		0.35	0.8	1	4.3		0.35	0.8	1	2
Alkalinity SM 2320B (mg/L)	490		3.1	6.4	10	530	J	3.1	6.4	10	8	280		3.1	6.4	10	280		3.1	6.4	10	0
Methane RSK-175 (µg/L)	5900		0.63	2	5	6900		0.63	2	5	16	6500		0.63	2	5	6400		0.63	2	5	2
Carbon Dioxide SM 2320B (mg/L)[1]	218		3.1	6.4	10	236	J	3.1	6.4	10	8	124		3.1	6.4	10	124		3.1	6.4	10	0

Notes:

[1]Carbon dioxide back calculated from alkalinity.

field duplicate RPD >30 or >2X the LOQ

< = less than LOQ
µg/L = micrograms per liter
DL = detection limit
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MNA = monitored natural attenuation
MNX = mono-nitroso-RDX
OU = Operable Unit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RPD = relative percent difference
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
TNT = 2,4,6-trinitrotoluene
U = nondetect
USEPA = United States Environmental Protection Agency
X = times

TABLE 4-1b
SUMMARY OF OU3 FIELD DUPLICATE SAMPLE PAIR
2021 ANNUAL REPORT

WELL NUMBER	SHGW02										
FIELD ID	SHGW02-21A					SHGW05-21A					
SAMPLE DATE	5/26/2021					5/26/2021					
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	RPD
VOLATILE ORGANIC COMPOUNDS (USEPA Method 8260B) (µg/L)											
1,1,1-Trichloroethane	<	U	0.16	0.4	1	<	U	0.16	0.4	1	
1,1,2,2-Tetrachloroethane	<	U	0.21	0.8	1	<	U	0.21	0.8	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon® 113)	<	U	0.18	0.4	3	<	U	0.18	0.4	3	
1,1,2-Trichloroethane	<	U	0.27	0.8	1	<	U	0.27	0.8	1	
1,1-Dichloroethane	<	U	0.22	0.8	1	<	U	0.22	0.8	1	
1,1-Dichloroethene	<	U	0.23	0.8	1	<	U	0.23	0.8	1	
1,2,3-Trichlorobenzene	<	U	0.21	0.8	1	<	U	0.21	0.8	1	
1,2,4-Trichlorobenzene	<	U	0.21	0.8	1	<	U	0.21	0.8	1	
1,2-Dibromo-3-Chloropropane	<	U	0.47	1.6	5	<	U	0.47	1.6	5	
1,2-Dibromoethane	<	U	0.18	0.4	1	<	U	0.18	0.4	1	
1,2-Dichlorobenzene	<	U	0.15	0.4	1	<	U	0.15	0.4	1	
1,2-Dichloroethane	<	U	0.13	0.4	1	<	U	0.13	0.4	1	
1,2-Dichloropropane	<	U	0.18	0.4	1	<	U	0.18	0.4	1	
1,3-Dichlorobenzene	<	U	0.13	0.4	1	<	U	0.13	0.4	1	
1,4-Dichlorobenzene	<	U	0.16	0.4	1	<	U	0.16	0.4	1	
2-Butanone (MEK)	15		2	0.4	1	16		2	0.4	1	6
2-Hexanone	55		1.7	4	6	56		1.7	4	6	2
4-Methyl-2-Pentanone (MIBK)	<	U	0.98	4	5	<	U	0.98	4	5	
Acetone	9.1	J	1.9	3.2	5	8.7	J	1.9	3.2	5	<2x
Benzene	<	U	0.16	6.4	10	<	U	0.16	6.4	10	
Bromochloromethane	<	U	0.1	0.4	1	<	U	0.1	0.4	1	
Bromodichloromethane	<	U	0.17	0.2	1	<	U	0.17	0.2	1	
Bromoform	<	U	0.46	0.4	1	<	U	0.46	0.4	1	
Bromomethane	<	U	0.21	1	1	<	U	0.21	1	1	
Carbon Disulfide	<	U	0.17	0.8	2	<	U	0.17	0.8	2	
Carbon Tetrachloride	<	U	0.19	0.8	2	<	U	0.19	0.8	2	
Chlorobenzene	<	U	0.17	0.4	2	<	U	0.17	0.4	2	
Chloroethane	<	U	0.41	0.4	1	<	U	0.41	0.4	1	
Chloroform	<	U	0.16	1.6	2	<	U	0.16	1.6	2	
Chloromethane	<	U	0.3	0.4	1	<	U	0.3	0.4	1	
Cis-1,2-Dichloroethene	<	U	0.15	0.8	2	<	U	0.15	0.8	2	

Notes:

field duplicate RPD >30 or >2X the LOQ

< = less than LOQ

µg/L = micrograms per liter

DL = detection limit

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNA = monitored natural attenuation

OU = Operable Unit

Qual = qualifier

RSK = Robert S. Kerr Environmental Research Laboratory

SM = standard method

U = nondetect

USEPA = United States Environmental Protection Agency

VOC = volatile organic compounds

X = times

TABLE 4-1b
SUMMARY OF OU3 FIELD DUPLICATE SAMPLE PAIR
2021 ANNUAL REPORT

WELL NUMBER	SHGW02										
FIELD ID	SHGW02-21A					SHGW05-21A					
SAMPLE DATE	5/26/2021					5/26/2021					
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	RPD
Cis-1,3-Dichloropropene	<	U	0.16	0.4	1	<	U	0.16	0.4	1	
Cyclohexane	<	U	0.28	0.4	1	<	U	0.28	0.4	1	
Dibromochloromethane	<	U	0.17	0.8	2	<	U	0.17	0.8	2	
Dichlorodifluoromethane	<	U	0.31	0.4	1	<	U	0.31	0.4	1	
Ethyl Benzene	<	U	0.16	0.8	2	<	U	0.16	0.8	2	
Isopropylbenzene	<	U	0.19	0.4	1	<	U	0.19	0.4	1	
Methyl Acetate	<	U	1.6	4	5	<	U	1.6	4	5	
Methyl Cyclohexane	<	U	0.1	0.8	5	<	U	0.1	0.8	5	
Methyl Tert-Butyl Ether (Mtbe)	<	U	0.25	0.4	2	<	U	0.25	0.4	2	
Methylene Chloride	<	U	0.94	2	5	<	U	0.94	2	5	
Styrene	<	U	0.36	0.8	1	<	U	0.36	0.8	1	
Tetrachloroethylene (Pce)	<	U	0.2	0.4	1	<	U	0.2	0.4	1	
Toluene	<	U	0.17	0.4	1	<	U	0.17	0.4	1	
Xylenes, Total	<	U	0.15	0.8	1	<	U	0.19	0.2	1.5	
Trans-1,2-Dichloroethene	<	U	0.19	0.4	1	<	U	0.15	0.8	1	
Trans-1,3-Dichloropropene	<	U	0.16	0.4	1	<	U	0.19	0.4	1	
Trichloroethene	<	U	0.29	0.4	1	<	U	0.16	0.4	1	
Trichlorofluoromethane	<	U	0.1	0.8	2	<	U	0.29	0.4	1	
Vinyl Chloride	<	U	0.19	0.2	1.5	<	U	0.1	0.8	2	
LABORATORY MNA PARAMETERS											
Methane RSK-175 (µg/L)	6100		0.63	2	5	6900		0.63	2	5	12
Ethane RSK-175 (µg/L)	<	U	0.57	1.5	5	<	U	0.57	1.5	5	
Ethene RSK-175 (µg/L)	<	U	0.4	1.4	5	<	U	0.4	1.4	5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.17		0.019	0.05	0.1	0.16		0.019	0.05	0.1	<2x
Alkalinity SM 2320B (mg/L)	200		3.1	6.4	10	200		3.1	6.4	10	0
Sulfate USEPA 9056A (mg/L)	26	J	1.5	4.5	5	21	J	1.5	4.5	5	<2x

Notes:

field duplicate RPD >30 or >2X the LOQ

< = less than LOQ

µg/L = micrograms per liter

DL = detection limit

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNA = monitored natural attenuation

OU = Operable Unit

Qual = qualifier

RSK = Robert S. Kerr Environmental Research Laboratory

SM = standard method

U = nondetect

USEPA = United States Environmental Protection Agency

VOC = volatile organic compounds

X = times

This section describes the May 2021 nature and extent of contamination for OU1 (Groundwater Explosives Plume) and OU3 (Shop Area). Discussion of the May 2021 nature and extent of the OU1 on-post area, OU1 off-post area, and OU3 are presented separately in this section. OU1 on-post water quality parameters discussion is also presented below; however, the OU1 off-post and OU3 MNA evaluation is included in **Section 6**. Additionally, to support evaluation of OU1 explosives concentration trends, this section provides a statistical trend evaluation of RDX and TNT using Mann-Kendall analysis.

Plume interpretations shown on **Section 5** figures are based on the most recent data at a given well or location, which is a combination of data collected during the OU1/OU3 LTM sampling event in May 2021 and the Quarter 6 (Q6) OU1 Rebound Study and subsurface injection performance monitoring sampling event in June 2021. Data and evaluations from the June 2021 Q6 OU1 Rebound Study and subsurface injection performance monitoring sampling event are presented in the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022). Additionally, the below evaluations of monitoring well concentrations were completed by comparing May 2021 data to the previous sampling events (i.e., for wells included in the OU1 Rebound Study and performance monitoring event: Q5 [Brice-AECOM 2021c] or for other OU1 wells: 2020 OU1 annual LTM event [Brice-AECOM 2021b]).

5.1 OU1 ON-POST

Table 5-1 summarizes the explosives compounds detected in groundwater and laboratory water quality parameters at OU1 on-post wells in May 2021. The primary explosives compounds detected in groundwater collected from on-post OU1 wells were RDX, HMX, and TNT (only compounds with HALs). Maximum on-post concentrations detected during the May 2021 OU1 annual groundwater LTM event were: 97 µg/L RDX (monitoring well G0099 in the LL1 residual source area), 39 J µg/L HMX (monitoring well G0096 in the LL1 residual source area), and 19 J µg/L TNT (monitoring well G0094 in the LL1 residual source area). Additionally, the explosives breakdown products 1,3,5-trinitrobenzene, 1,3-dinitrobenzene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 2-Am-DNT, 4-Am-DNT, MNX, and nitrobenzene were detected. **Table 5-3** summarizes the frequency of detections, concentration ranges, and detections above HALs for explosives compounds detected during the 2021 OU1 annual sampling event at CHAAP. Current and historic OU1 analytical data from annual sampling events (not including GWTF and direct push groundwater investigations sampling) are presented in **Appendix E**. Additionally presented in **Appendix E**, declining explosives concentration trends can best be seen in graphical form of historical explosives concentrations for each on-post and off-post monitoring well and piezometer.

The OU1 on-post groundwater explosives plumes consist of RDX and TNT and the horizontal extent of these plumes currently exist only at portions of LL1, LL2, between EW6 and EW7, and the Decant Station (**Figures 5-1** to **5-3**). No explosive concentrations were detected above HALs at LL3, LL4, or LL5 in 2021. The overall on-post groundwater explosives plume between the former facility boundary and LL2 was interpreted to be multiple small plumes with discontinuities across an area of approximately 1.7 miles long and a maximum of approximately 900 feet wide (near the former facility boundary). Additionally, a small RDX plume (approximately 40 feet wide) was identified at well G0102 in the Decant Station (western area of facility as shown on

Figures 5-2 and **5-3**). Results from the OU1 Rebound Study and subsurface injection performance monitoring quarterly sampling events (May/June 2021) were used in conjunction with the 2021 OU1 annual groundwater sampling results in the development of the groundwater plumes. The most recent OU1 Rebound Study and performance monitoring data and discussion is provided in the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022). Additionally, select historical RDX and TNT plume maps (from June 2020 through July 1994) are presented for comparison in **Appendix E**.

The following subsections discuss nature and extent of explosives within the residual source areas at LL1 and LL2, and the area between EW6 and EW7, and the Decant Station.

5.1.1 Load Line 1 Area

The following 18 monitoring wells and 2 piezometers located in LL1 were sampled in May 2021:

- Monitoring wells: G0023, G0048, G0049, G0067, G0084, G0093, G0094, G0096, G0097, G0098, G0099, G0108, G0109, G0110, G0112, G0113, G0114, and G0118
- Piezometers: PZ015 and PZ016

Of the 18 wells and two piezometers sampled at LL1 in May 2021, four wells (G0093, G0094, G0096, and G0099) had RDX and/or TNT concentrations above the HALs. The TNT concentrations at G0093 and G0094 were 3.4 µg/L and 19 µg/L, respectively. The RDX concentrations at G0093, G0094, G0096, and G0099 were 7.8 µg/L, 8.1 µg/L, 58 µg/L, and 97 µg/L, respectively. Concentrations of RDX and/or TNT decreased or remained nondetect at 13 of 20 LL1 wells and piezometers sampled in May 2021. Of the seven wells that showed increases in RDX and/or TNT concentrations since the annual 2020 and/or Q5 sampling events, only two wells (G0093 and G0099) increased to above the HALs. The TNT concentration at well G0093 increased from nondetect in June 2020 to 3.4 µg/L in May 2021 and the RDX concentrations at wells G0093 and G0099 increased from nondetect and 1.3 J µg/L in June 2020 to 7.8 µg/L and 97 µg/L in May 2021, respectively. It is interpreted at these two wells the rising water levels (2018 to 2020) in areas of limited/older subsurface injection activities have likely caused dissolution and desorption of explosives trapped in the vadose zone during periods of lower water levels (2012 to 2017). Additionally, at G0099, the 2020 injection activities completed to the north may have also caused mobilization of dissolved explosives.

RDX and TNT plumes in LL1 were interpreted based on May 2021 sampling event results as shown on **Figures 5-1** and **5-3**. The numbers, size, and shapes of the RDX plumes in the LL1 area have changed since the annual 2020 and/or Q5 sampling events due to concentrations increasing at wells G0094 and G0096, and at wells G0093 and G0099 (to above HAL). The TNT plumes numbers, size, and shapes have changed since the annual 2020 and/or Q5 sampling events due to concentrations increasing at well G0094, and at well G0093 (to above the HAL).

The vertical extent of explosives at LL1 is interpreted based on historic groundwater samples collected vertically throughout the aquifer (direct push groundwater investigation and annual sampling). Historic results indicate that the groundwater explosives plume (RDX and/or TNT >2

µg/L) at LL1 residual source areas extends approximately 20 to 25 feet below the water table. Most recent interpretations and illustrations of vertical extent of explosives at LL1 can be found in Section 5 of the Final 2016 Annual Groundwater and Subsurface Injection Report (BW-URS 2017b).

RDX breakdown product MNX was detected at monitoring well G0099 at a concentration of 0.98 J µg/L, the well with the highest RDX concentration. TNT breakdown products 2-Am-DNT and 4-Am-DNT were detected at G0093 and G0094, the only wells with TNT concentrations above the HAL. 2-Am-DNT and 4-Am-DNT concentrations at G0093 were 2.5 J µg/L and 2.8 J µg/L, and at G0094 were 35 J µg/L and 39 J µg/L, respectively. The presence of MNX and 2-Am-DNT and 4-Am-DNT indicates that degradation of RDX and TNT is occurring in the highest concentration areas at LL1.

Subsurface injections were completed at LL1 residual source areas (surrounding wells G0094 and G0096) in October-November 2020 to expedite the degradation of RDX and TNT (shown on **Figure 5-1**). Wells G0094 and G0096 will be used as quarterly subsurface injection performance monitoring locations (Q5 – February/March 2021, Q6 – May/June 2021, Q7 – October 2021, and Q8 – anticipated February 2022), as included in the most recent Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

5.1.2 Load Line 2 Area

The following 13 monitoring wells and six piezometers located in LL2 were sampled in May 2021:

- Monitoring wells: G0066R, G0085, G0095, G0100, G0101, G0111, G0115, G0116, G0117, G0119, G0121, G0122, and G0123
- Piezometers: PZ009, PZ010, PZ011, PZ012, PZ013, and PZ014

Of the 13 monitoring wells and six piezometers sampled at LL2 and slightly downgradient in May 2021, two wells (G0111 and G0122) had explosives concentrations above the HALs for RDX and/or TNT. The TNT concentration at G0111 was 6.6 µg/L and the RDX concentrations at G0111 and G0122 were 6.5 J µg/L and 82 µg/L, respectively. Concentrations of RDX and/or TNT decreased or remained nondetect at 14 of 19 LL2 wells and piezometers sampled in May 2021. Of the five wells and piezometers that showed increases in RDX and/or TNT concentrations, only two wells (G0111 and G0122) increased to above the RDX HAL. The RDX concentration at well G0111 increased from nondetect during the Q5 sampling event to 6.5 J µg/L in May 2021, while the TNT concentration decreased at this well, but remained above the HAL during this time. The RDX concentration at well G0122 increased from nondetect during the Q5 sampling event to 82 J µg/L in May 2021. These increases in RDX concentrations are likely due to the 2020 injection activities causing mobilization of dissolved explosives, as similarly identified following the 2019 injection activities (increases during the Q2 and Q3 sampling events then decreasing to below the HAL during Q4). These current concentrations of RDX and TNT are expected to quickly biodegrade within the established anaerobic treatment zones. Conversely, the RDX concentrations at wells G0121 and G0123 decreased from 13 µg/L and 48 µg/L in June 2020 to nondetect for both in Q5, and remained nondetect in May 2021, respectively.

RDX and TNT plumes in LL2 were interpreted based on May 2021 sampling event results as shown on **Figures 5-1** and **5-3**. The numbers, size, and shapes of the RDX plumes in the LL2 area have changed since the annual 2020 and/or Q5 sampling events due to concentrations decreasing at wells G0121 and G0123; however, RDX concentrations also increased at wells G0111 and G0122. The TNT plume size and shape has changed since the annual 2020 and/or Q5 sampling events due to concentrations decreasing at well G0111.

The vertical extent of explosives at LL2 is interpreted based on historic groundwater samples collected vertically throughout the aquifer (direct push groundwater investigations). Historic results indicate that the groundwater explosives plume (RDX >2 µg/L) at LL2 residual source areas extends approximately 25 to 30 feet below the water table. Most recent interpretations and illustrations of vertical extent of explosives at LL2 can be found in Section 5 of the Final 2016 Annual Groundwater and Subsurface Injection Report (BW-URS 2017b).

RDX breakdown product MNX was not detected in any monitoring wells or piezometers at LL2; however, the absence of MNX may be attributed to its short half-life in an anaerobic environment. TNT breakdown products 2-Am-DNT and/or 4-Am-DNT were detected at seven wells (G0066R, G0095, G0111, PZ009, PZ010, PZ011, and PZ013). The maximum concentrations of 2-Am-DNT and 4-Am-DNT were 4.9 µg/L and 6.8 µg/L, respectively, at G0111, the only well with TNT concentrations above the HAL. The presence of 2-Am-DNT and 4-Am-DNT indicates that degradation of RDX and TNT is occurring in the highest concentration areas at LL2.

Subsurface injections were completed at LL2 residual source areas (surrounding wells G0111, G0121, G0122, and G0123) in October-November 2020 to expedite the degradation of RDX and TNT (shown on **Figure 5-1**). Wells G0111, G0121, G0122, and G0123 will be used as quarterly subsurface injection performance monitoring locations (Q5 – February/March 2021, Q6 – May/June 2021, Q7 – October 2021, and Q8 – anticipated February 2022), as included in the most recent Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

5.1.3 Between EW6 and EW7

The following 19 monitoring wells and 4 piezometers located between EW6 and EW7 were sampled in May 2021:

- Monitoring wells: G0022, G0024, G0070, G0075, G0076, G0077, G0078, G0079, G0080, G0081, G0082, G0083, G0086, G0087, G0088, G0089, G0090, G0091, and G0092
- Piezometers: PZ017R, PZ018, PZ019, and PZ020

Of the 19 wells and four piezometers sampled between EW6 and EW7 in May 2021, six wells and piezometers (G0077, G0086, G0089, PZ017R, PZ018, and PZ020) had explosives concentrations above the HAL for RDX and/or TNT. The TNT concentrations at G0077, G0086, G0089, PZ017R, PZ018, and PZ020 were 4.3 µg/L, 4.9 µg/L, 2.3 µg/L, 10 µg/L, 4.6 µg/L, and 3.8 µg/L, respectively. The only RDX concentration above the HAL was at PZ017R (2.1 µg/L), which decreased from 2.2 µg/L in the Q5 event. Concentrations of RDX and/or TNT decreased or

remained the same in 14 of 23 wells and piezometers with one well (G0022) decreasing to below the TNT HAL in May 2021. Of the nine wells that showed increases in RDX and/or TNT concentrations in May 2021, only one well (G0089) increased to above the HALs. The TNT concentration at well G0089 increased from 1.7 µg/L in June 2020 to 2.3 µg/L in May 2021.

RDX and TNT plumes in the area between EW6 and EW7 were interpreted based on May/June 2021 sampling results as shown on **Figures 5-1** and **5-3**. These interpretations include Q6 direct push OU1 subsurface injection performance monitoring interpretations completed in the area between EW6 and EW7 in June 2021 (Brice-AECOM 2022). The numbers, size, and shapes of the TNT plumes between EW6 and EW7 have changed since the annual 2020 and/or Q5 sampling events due to TNT concentrations increasing to above the HAL at wells G0086, G0089, and PZ018; and decreasing below the HAL at well G0022. An RDX plume has been included since the Q5 sampling event due to the concentration increasing above the HAL at PZ017R (Brice-AECOM 2021c).

The vertical extent of explosives between EW6 and EW7 is interpreted based on historic groundwater samples collected vertically throughout the aquifer (direct push groundwater investigation, annual sampling, and the 2020 subsurface injection performance monitoring). Historic results indicate that the groundwater explosives plume (RDX and/or TNT >2 µg/L) at LL1 extends approximately 30 to 35 feet below the water table. The deeper vertical interpretation of explosives concentrations between EW6 and EW7 (compared to LL1 and LL2) is likely due to the vertical migration of contaminants deeper into the aquifer downgradient from residual source areas and the EW7's pump placement (approximately 45 feet bgs) historically drawing contamination deeper within its influence. The most recent interpretations and illustrations of vertical extent of explosives between EW6 and EW7 can be found in Section 5 of the Final 2018 Annual Groundwater Monitoring Report (Brice-AECOM 2019b) and the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

RDX breakdown product MNX was not detected in any monitoring wells or piezometers between EW6 and EW7, however, the absence of MNX at the monitoring wells and piezometers may be attributed to its short half-life in an anaerobic environment and low- to no-concentrations of RDX at these wells. TNT breakdown products 2-Am-DNT and/or 4-Am-DNT were detected at 15 monitoring wells and piezometers (G0022, G0024, G0075, G0077, G0081, G0082, G0086, G0087, G0088, G0089, G0090, G0091, PZ017R, PZ018, and PZ020) between EW6 and EW7 in May 2021. The maximum concentrations for TNT breakdown products 2-Am-DNT and 4-Am-DNT were 3 µg/L and 4.9 J µg/L at piezometers PZ017R and PZ018, respectively. The presence of 2-Am-DNT and 4-Am-DNT indicates that degradation of TNT is occurring in the highest concentration areas.

Subsurface injections were completed between EW6 and EW7 (surrounding well G0022 and upgradient of PZ017R and PZ018) in October-November 2020 to expedite the degradation of RDX and TNT (shown on **Figure 5-1**). Well G0022 and piezometers PZ017R and PZ018 will be used as quarterly subsurface injection performance monitoring locations (Q5 – February/March 2021, Q6 – May/June 2021, Q7 – October 2021, and Q8 – anticipated February 2022), as included in the most recent Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

5.1.4 Decant Station

The following six monitoring wells located at Decant Station were sampled in May 2021:

- Monitoring wells: G0102, G0103, G0104, G0105, G0106 and G0107

Of the 6 wells sampled at the Decant Station in May 2021, only one well (G0102) had explosives concentrations above the HAL for RDX with no TNT detection. RDX and TNT concentrations were nondetect in all other Decant Station wells. The RDX concentration at G0102 decreased from 41 J µg/L in June 2020, to nondetect in Q5, and then increased to 8.5 J µg/L in May 2021.

An RDX plume at the Decant Station was interpreted based on May 2021 sampling results as shown on **Figures 5-2** and **5-3**. The RDX plume at the Decant Station is from a small residual source area from previous Freon® 113 decanting operations.

The vertical extent of explosives at the Decant Station is interpreted based on historic groundwater samples collected vertically throughout the aquifer (direct push groundwater investigations and annual sampling). Historic results indicate that the groundwater RDX plume (>2 µg/L) at the Decant Station extends approximately 20 to 25 feet below the water table. Most recent interpretations and illustrations of vertical extent of the Decant Station can be found in the 2012 Decant Station Groundwater Investigation and Additional Subsurface Injection Final Letter Report (BW-URS 2013).

RDX breakdown product MNX was not detected in any monitoring wells in the Decant Station. The absence of MNX at the Decant Station monitoring wells may be attributed to its short half-life in an anaerobic environment and low- to no-concentrations of RDX at these wells. TNT breakdown products 2-Am-DNT and 4-Am-DNT were not detected either, likely due to the absence of TNT concentrations above the HAL.

Subsurface injections were completed at the Decant Station in October-November 2020 to expedite the degradation of RDX near well G0102 (shown on **Figure 5-2**). This well will be used as a quarterly subsurface injection performance monitoring location (Q5 – February/March 2021, Q6 – May/June 2021, Q7 – October 2021, and Q8 – anticipated February 2022), as included in the most recent Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

5.2 OU1 OFF-POST

Table 5-2 summarizes the explosives compounds detected in groundwater and laboratory MNA parameters at OU1 off-post wells in May 2021. The primary explosives compounds detected in groundwater collected from OU1 were RDX, HMX, and TNT (only compounds having HALs). Maximum concentrations detected in off-post wells during the 2021 OU1 annual groundwater LTM event were all below the HALs (1 µg/L RDX, 0.93 µg/L TNT, and 1.4 J µg/L HMX all at well NW020). **Table 5-3** summarizes the frequency of detections, concentration ranges, and comparison to HALs for explosives compounds detected during the 2021 OU1 annual sampling event at CHAAP. **Table 5-4** summarizes the highest historical OU1 off-post explosives

concentrations detected from 1984 to 2021. Current and historic OU1 analytical data and select historical RDX and TNT plume maps from September/October 2020 through July 1994 are presented for comparison in **Appendix E**.

As recommended in the Final 2018 Annual Report (Brice-AECOM 2019b), 15 off-post wells that were previously removed from the OU1 LTM program are being sampled as part of the OU1 Rebound Study which occurs in conjunction with the OU1 annual LTM events. The 15 wells have been reincorporated back into the OU1 annual monitoring program, in addition to the OU1 Rebound Study sampling events, to monitor areas directly downgradient of on-post explosives plumes and to identify any potential off-post explosives plume migration (Brice-AECOM 2019a). However, following the OU1 Rebound Study sampling event in September-October 2020 (Q4), six of these 15 wells are no longer able to be accessed due to property owner not allowing access (and scheduled for future abandonment). The following 12 off-post monitoring wells (nine reincorporated wells and the NW020 cluster) were sampled in May 2021:

- Monitoring wells: CA210, CA211, CA212, CA213, NW020, NW021, NW022, NW060, NW061, NW062, NW070, NW071

Ten of the 12 wells sampled off-post in May 2021 were nondetect for RDX and TNT. Only two off-post monitoring wells (NW020 and NW021) had detections of RDX and/or TNT. The TNT concentration at well NW020 was 0.93 J µg/L and the RDX concentrations at wells NW020 and NW021 were 1.0 µg/L and 0.13 J µg/L, respectively. These May 2021 off-post concentrations were comparable to the Q5 (February/March 2021) off-post concentrations of 1.2 µg/L for RDX and 0.8 µg/L for TNT at NW020, and results of nondetect for other OU1 off-post wells.

The May 2021 analytical data indicate all OU1 off-post monitoring wells sampled had explosives concentrations below the HALs, indicating the groundwater explosives plume is no longer present at these locations. Although all off-post wells are currently below the HALs, it is interpreted that the on-post plume does extend slightly into the off-post area just east of EW7. Quarterly direct push groundwater sampling completed in the off-post area as part of the OU1 Rebound Study has verified both horizontal and vertical extents of the off-post explosives plume (Brice-AECOM 2022). The extent of the off-post explosives plume can be seen on **Figures 5-3** and **5-4**.

The off-post plume, near the former facility boundary, is interpreted to extend approximately 35 to 40 feet below the water table. These vertical depths of the off-post plume have been verified during quarterly OU1 Rebound Study direct push groundwater sampling completed off-post, as presented in the most recent Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

The RDX breakdown product MNX was not detected in any off-post monitoring wells; however, may be attributed to low- to no-concentrations of RDX at/near these wells. TNT breakdown products 2-Am-DNT and/or 4-Am-DNT were detected at two off-post wells: NW020 and NW021 (near former facility boundary). The maximum concentration of 2-Am-DNT was 1.5 µg/L at NW021 and the maximum concentration of 4-Am-DNT was 1.3 J µg/L at NW020.

5.3 OU3 SHOP AREA

Table 5-5 summarizes the VOCs and TPH-DRO detected in groundwater and laboratory MNA parameters at OU3. VOCs detected in groundwater at OU3 include 1,1,2-TCA, 1,2-DCA, 2-butanone (MEK), 2-hexanone, acetone, carbon disulfide, and chloroethane.

Monitoring wells SHGW02 and SHGW03 were sampled during the May 2021 groundwater monitoring event at OU3 Shop Area. During the May 2021 OU3 annual groundwater LTM event, 1,1,2-TCA was detected at 11 µg/L (above the MCL of 5 µg/L) at monitoring well SHGW03. All remaining VOC detections were below MCLs in 2021 at both SHGW02 and SHGW03, as shown on **Figure 5-5**. The May 2021 1,1,2-TCA plume at OU3 Shop Area is interpreted as a single small plume, likely the result of increasing groundwater elevations causing dissolution and desorption of 1,1,2-TCA trapped in the vadose zone, and has migrated downgradient from well SHGW02 (believed to be the historical VOC source area).

1,1,2-TCA concentrations have shown a declining trend since 2001 to present (e.g., 88 µg/L to 11 µg/L, respectively), was 15 µg/L in 2020, and prior had been below its MCL since 2010 at all OU3 Shop Area wells. 1,2-DCA concentrations have fluctuated at monitoring well SHGW02 since 2008 (i.e., above MCL in 2008, 2010, 2014, 2016, and 2018); however, 1,2-DCA concentrations at SHGW02 have generally shown a declining trend from 27 µg/L in 2008 to nondetect in 2021. 1,2-DCA concentrations have not been above the MCL at downgradient well SHGW03 since 2000. These observed declining VOC concentrations are likely the result of natural attenuation and previous subsurface injections completed at OU3 in 2007 and 2009 (BW-URS 2008, BW-URS 2010). Historical VOC concentrations and select plume maps for the OU3 Shop Area wells are presented in **Appendix E**.

Based on historical diesel-contaminated soil removal actions completed at OU3, TPH-DRO was added to the groundwater monitoring parameters list at wells G0069, SHGW03, and SHGW04 beginning in 2004 and has continued through 2021. Since 2005, all detections of TPH-DRO have been below the project action limit of 10 mg/L (NDEQ 2009) since 2005. In 2021, TPH-DRO was detected at a concentration of 0.18 J mg/L at SHGW03. Historical TPH-DRO concentrations for OU3 Shop Area wells are presented in **Appendix E** with historical comparisons accordingly.

5.4 OU1 STATISTICAL TREND EVALUATION

To support evaluation of OU1 explosives concentration trends, this section provides a statistical trend evaluation of RDX and TNT using Mann-Kendall analysis in Monitoring and Remediation Optimization System (MAROS) Version 3.0 (Air Force Civil Engineer Center [AFCEC] 2012). Mann-Kendall is a non-parametric statistical procedure that is well suited for analyzing trends in data over time, that do not follow a normal distribution, and focus on the location of the probability distribution of the sampled population, rather than specific parameters of the population (AFCEC 2012). The linear regression analysis, modeling, and empirical functions were not used during this evaluation. Site data analyzed by the program includes historic and current site analytical data, hydrogeologic factors, and locations of potential receptors.

Following the 2021 OU1 annual sampling event, a statistical trend evaluation of RDX and TNT concentrations was completed for select on- and off-post monitoring wells and piezometers (wells indicated on **Figures 5-3** and **5-4**). Historical OU1 LTM Program explosives data were utilized for the trend evaluation. The focus of the statistical trend evaluation is on OU1 LTM wells near the former facility boundary and upgradient OU1 LTM wells between EW6 and EW7. Only these select wells with historic RDX and/or TNT detections above HALs are included in the statistical trend evaluation. Trend analysis is neither performed on OU1 off-post wells because explosives concentrations remain below HALs nor at OU1 on-post residual source area wells (LL1 and LL2) due to ongoing treatment via subsurface injections.

Typically, OU1 annual LTM sampling events were completed during the spring, however, a few annual OU1 LTM sampling events have been completed in the late summer (August 2014, 2015, and 2016). Ongoing evaluations of the historic data collected indicate, with exception to OU1 on-post wells not included in the trend analysis (i.e., residual source area wells with ongoing subsurface injection treatments [see **Section 5.1**]), the data are not significantly impacted by seasonal effects or fluctuating water levels. Current and historic explosives analytical data from OU1 annual sampling events are presented in **Appendix G**.

Using the three statistical metrics for Mann-Kendall analysis (Mann-Kendall statistic [S], Confidence in Trend [CT], and Coefficient of Variation [COV]), the Mann-Kendall test analyzes the trend in the data over time and is utilized in the analysis of groundwater plume stability. A concentration trend category is then determined following the Mann-Kendall Analysis Decision Matrix. Generally, positive S values indicate an increase in analyte concentrations over time and negative S values indicate a decrease in analyte concentrations over time. The CT provides a percentage (%) value of confidence for the S validity, and the COV provides a general indicator of the degree of variability. Mann-Kendall analysis will be applied to RDX and TNT results to assess the potential for future RDX and TNT concentration increases.

Individual monitoring well concentration trends are categorized into one of seven categories based on the decision matrix:

MANN-KENDALL ANALYSIS DECISION MATRIX

Mann-Kendall Statistic (S)	Confidence in Trend (CT)	Concentration Trend
S > 0	> 95 %	Increasing (I)
S > 0	90% to 95%	Probably Increasing (PI)
S > 0	< 90%	No Trend (NT)
S less than or equal (≤) 0	< 90% and COV greater than or equal (≥) 1	No Trend (NT)
S ≤ 0	< 90% and COV < 1	Stable (S)
S < 0	90% to 95%	Probably Decreasing (PD)
S < 0	> 95%	Decreasing (D)
Dataset where all values are nondetect		Nondetect (ND)

Notes:

No Trend – No statistically significant trend with more variability in concentrations over time (COV)
Stable – No statistically significant trend with less variability in concentrations over time (COV)

5.4.1 Program Input

Groundwater monitoring data at each set of wells were tabulated into an importable format recognized by the MAROS software, as summarized and presented in **Appendix G** (**Tables G.1** and **G.2**). The groundwater monitoring data set included:

- Well names
- Well location coordinates
- Chemical constituent(s)
- Sample results
- Sample dates
- Detection limits (used to estimate values for non-detects)
- Data flags (non-detect or estimated [**J**] values)

5.4.2 Program Output

Mann-Kendall Statistics Summary result sheets output for each well set are included in **Appendix G** with results discussed below.

5.4.3 Statistical Results Summary

The Mann-Kendall Statistics Summary sheets list the monitoring wells used in the evaluation. General sampling information, such as the number of samples and average detected constituent concentration, is also presented. A contaminant concentration trend is determined for each well using the Mann-Kendall technique.

Data for the Mann-Kendall analysis for wells at the 'former facility boundary' were included from nine total wells (two off-post monitoring wells and six on-post monitoring wells and piezometers, and one historically operated extraction well) and are shown on the Mann-Kendall Statistics Summary result sheet in **Appendix G**. The Mann-Kendall trend analysis results for each of the nine wells includes: detections, detection frequency, minimum, maximum, mean, median, Mann-Kendall statistic result, and concentration trend (**Figure 5-6**). The Mann-Kendall analysis of the former facility boundary wells yielded the following results for TNT and RDX:

- TNT – decreasing (D) at all wells
- RDX – decreasing (D) at all wells

Data for the Mann-Kendall analysis for the 'upgradient wells' were included from eight on-post monitoring wells and are shown on the Mann-Kendall Statistics Summary result sheet in **Appendix G**. The Mann-Kendall trend analysis results for each of the eight wells includes:

detections, detection frequency, minimum, maximum, mean, median, Mann-Kendall statistic result, and concentration trend (**Figure 5-7**)**.** The Mann-Kendall analysis of the upgradient wells yielded the following results for TNT and RDX:

- TNT – decreasing (D) or not detected (ND) at all wells
- RDX – decreasing (D) at all wells except well G0087 (no trend [NT])

The trend analysis results for the two sets of wells (shown on **Figures 5-6** and **5-7**) indicate that TNT and RDX concentrations show statistically-significant decreasing trends at all wells, with one exception that shows no trend. The tabulated groundwater monitoring data for each well are included in **Appendix G**.

5.5 OU1 ON-POST WATER QUALITY PARAMETER RESULTS

On-post water quality parameter results over the past seven annual groundwater sampling events are described in this section. Concentrations of water quality and microbial respiratory parameters at on-post wells in OU1 RAO injection treatment areas were generally different than the on-post wells that were not in treatment areas. **Table 5-6** presents data that were collected from OU1 on-post monitoring wells outside of the OU1 RAO treatment areas and **Table 5-7** presents data collected from OU1 on-post monitoring wells within the treatment areas. Beginning in 2007, the first year of OU1 RAO subsurface injections, changes in water quality parameter results were observed between data collected from monitoring wells that are within RAO injection treatment areas and wells that are outside of RAO treatment areas. The most significant differences were seen at the LL1 and LL2 residual source areas. Temporal changes observed in residual source areas are the result of the 2007 through 2016 OU1 RAO subsurface injections, and again more recently during the 2020 subsurface injections. Various pre-injection averages from 2001 to 2007 are also included in **Table 5-6**, for comparison to wells directly impacted from subsurface injections completed during different events (i.e., 2007-2016, 2019, or 2020). Additionally, the 2021 OU1 on-post and off-post well laboratory MNA water quality parameter results are shown on **Figures 6-1a** through **6-1d**, for reference. General on-post data trends include:

- ORP values at on-post wells outside the RAO treatment areas were generally positive and greater than approximately 100 mV in shallow groundwater (**Table 5-6**). ORP values in on-post wells inside the RAO treatment areas were lower than OU1 on-post wells outside the RAO treatment areas and generally negative (**Table 5-7**). These observations indicate that the treatment area remains conducive to explosives biodegradation.
- DO concentrations at on-post wells outside the RAO treatment areas were generally > 1 mg/L in shallow groundwater (**Table 5-6**). DO concentrations at on-post wells inside the RAO treatment areas were generally < 1 mg/L (**Table 5-7**). The lower post-treatment DO concentrations in the shallow aquifer indicates that the treatment area remains conducive to explosives biodegradation.
- Nitrate/nitrite concentrations at on-post wells outside the RAO treatment areas were generally > 8 mg/L (**Table 5-6**). Nitrate/nitrite concentrations at on-post wells inside

the RAO treatment areas are nondetect in more than half of the wells and generally < 5 mg/L in those wells with detections (**Table 5-7**). These lower nitrate/nitrite concentrations inside the RAO treatment areas indicate that the treatment area remains conducive to explosives biodegradation.

- Fe^{2+} concentrations at on-post wells outside the RAO treatment areas were < 1 mg/L (**Table 5-6**). Fe^{2+} concentrations at on-post wells inside the RAO treatment areas were variable but generally > 3 mg/L with some concentrations > 10 mg/L (**Table 5-7**). These higher Fe^{2+} concentrations inside the RAO treatment areas indicates that ferric iron (Fe^{3+}) reduction processes are occurring, and the treatment area remains conducive to explosives biodegradation.
- Sulfate concentrations at both on-post wells outside and inside the RAO treatment areas varied but were generally > 100 mg/L in shallow groundwater (**Tables 5-6** and **5-7**). Conversely, sulfide concentrations at all wells are generally < 1 mg/L indicating biodegradation via sulfate reduction is not occurring.
- Methane concentrations at on-post wells outside the RAO treatment areas were generally nondetect (**Table 5-6**). Methane concentrations at on-post wells inside the RAO treatment areas are generally > 5,000 µg/L (**Table 5-7**). These higher methane concentrations inside the RAO treatment zone suggest that methanogenesis is occurring and the treatment areas remain conducive to explosives biodegradation.
- DOC concentrations at on-post wells outside the RAO treatment zone were generally < 5 mg/L (**Table 5-6**). DOC concentrations at on-post wells inside the RAO treatment zone were highly variable ranging from < 3 mg/L to 650 mg/L, but higher than pre-injection averages (**Table 5-7**). The variable nature of DOC concentrations inside the treatment area is likely the result of areas of older injections (lower DOC) and newer injections (higher DOC) but in general the treatment areas remain conducive to explosives biodegradation.

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0017-21A					G0022-21A					G0023-21A					G0024-21A					G0044-21A					G0045-21A					G0048-21A				
SAMPLE DATE	HALs	5/25/2021					5/25/2021					5/21/2021					5/26/2021					5/24/2021					5/25/2021					5/21/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	UJ	0.089	0.21	0.22	0.22		0.082	0.2	0.21	<	U	0.084	0.2	0.21	<	U	0.089	0.21	0.22	<	U	0.082	0.2	0.21	<	U	0.085	0.2	0.21	<	U	0.085	0.2	0.21
1,3-Dinitrobenzene	NA	<	UJ	0.039	0.11	0.12	<	U	0.036	0.098	0.11	<	U	0.037	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.036	0.098	0.11	<	U	0.037	0.1	0.11	<	U	0.037	0.1	0.11
TNT	2	<	UJ	0.047	0.11	0.12	0.69		0.044	0.098	0.11	<	U	0.045	0.1	0.11	0.44		0.048	0.11	0.12	<	U	0.044	0.098	0.11	<	U	0.045	0.1	0.11	<	U	0.045	0.1	0.11
2,4-Dinitrotoluene	NA	<	UJ	0.029	0.084	0.11	<	U	0.027	0.078	0.098	<	U	0.027	0.08	0.1	<	U	0.029	0.085	0.11	<	U	0.027	0.078	0.098	<	U	0.028	0.081	0.1	<	U	0.028	0.081	0.1
2,6-Dinitrotoluene	NA	<	UJ	0.042	0.084	0.11	<	U	0.039	0.078	0.098	<	U	0.04	0.08	0.1	<	U	0.043	0.085	0.11	<	U	0.039	0.078	0.098	<	U	0.04	0.081	0.1	<	U	0.04	0.081	0.1
2-Amino-4,6-dinitrotoluene	NA	0.066	J	0.053	0.11	0.12	1		0.05	0.098	0.11	<	UJ	0.051	0.1	0.11	1.2		0.054	0.11	0.12	<	U	0.05	0.098	0.11	<	U	0.051	0.1	0.11	<	UJ	0.051	0.1	0.11
2-Nitrotoluene	NA	<	UJ	0.09	0.21	0.22	<	UJ	0.084	0.2	0.21	<	UJ	0.086	0.2	0.21	<	UJ	0.091	0.21	0.22	<	UJ	0.084	0.2	0.21	<	UJ	0.086	0.2	0.21	<	UJ	0.086	0.2	0.21
3-Nitrotoluene	NA	<	UJ	0.21	0.42	0.42	<	UJ	0.19	0.39	0.39	<	UJ	0.2	0.4	0.4	<	UJ	0.21	0.42	0.42	<	UJ	0.19	0.39	0.39	<	UJ	0.2	0.4	0.4	<	UJ	0.2	0.4	0.4
4-Amino-2,6-dinitrotoluene	NA	<	UJ	0.061	0.13	0.16	0.7		0.056	0.12	0.15	<	UJ	0.058	0.12	0.15	1.1		0.061	0.13	0.16	<	U	0.057	0.12	0.15	<	U	0.058	0.12	0.15	<	UJ	0.058	0.12	0.15
4-Nitrotoluene	NA	<	UJ	0.11	0.42	0.43	<	UJ	0.098	0.39	0.4	<	UJ	0.1	0.4	0.41	<	UJ	0.11	0.42	0.44	<	UJ	0.098	0.39	0.4	<	UJ	0.1	0.4	0.41	<	UJ	0.1	0.4	0.41
HMX	400	<	UJ	0.092	0.21	0.22	<	U	0.086	0.2	0.21	<	U	0.088	0.2	0.21	<	U	0.093	0.21	0.22	0.21		0.086	0.2	0.21	<	U	0.088	0.2	0.21	<	U	0.088	0.2	0.21
MNX	NA	<	UJ	0.16	0.42	2.1	<	U	0.15	0.39	2	<	U	0.15	0.4	2	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	<	U	0.16	0.4	2	<	U	0.16	0.4	2
Nitrobenzene	NA	<	UJ	0.096	0.21	0.22	<	U	0.089	0.2	0.21	<	U	0.091	0.2	0.21	<	U	0.097	0.21	0.22	<	U	0.089	0.2	0.21	<	U	0.092	0.2	0.21	<	U	0.092	0.2	0.21
RDX	2	<	UJ	0.054	0.21	0.22	<	U	0.05	0.2	0.21	<	U	0.052	0.2	0.21	<	U	0.055	0.21	0.22	<	U	0.05	0.2	0.21	<	U	0.052	0.2	0.21	<	U	0.052	0.2	0.21
Tetryl	NA	<	UJ	0.034	0.11	0.12	<	U	0.031	0.098	0.11	<	U	0.032	0.1	0.11	<	U	0.034	0.11	0.12	<	U	0.031	0.098	0.11	<	U	0.032	0.1	0.11	<	U	0.032	0.1	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	8.4		0.044	0.1	0.2	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	2.1		0.022	0.05	0.1	0.29		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		0.71	J	0.69	1	1	<	U	0.69	1	1	5.6		0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	2		0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	U	0.019	0.05	0.1	5.3		0.019	0.05	0.1	<	U	0.019	0.05	0.1	7.8		0.019	0.05	0.1	8.9		0.019	0.05	0.1	<	U	0.019	0.05	0.1	37		0.19	0.5	1
Sulfide SM 9034 (mg/L)		6.4		0.79	1.9	4	0.8	J	0.79	1.9	4	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	2.4	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		540		5.2	13	25	130		1	2.5	5	82		1	2.5	5	54		1	2.5	5	700		5.2	13	25	1300		10	25	50	62		2.1	5	10
Dissolved Organic Carbon SM 9060A (mg/L)		7.6		0.35	0.8	1	3.2		0.35	0.8	1	4.9		0.35	0.8	1	3.3		0.35	0.8	1	4.9		0.35	0.8	1	6		0.35	0.8	1	3		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		440		3.1	6.4	10	330		3.1	6.4	10	360		3.1	6.4	10	220		3.1	6.4	10	490		3.1	6.4	10	470		3.1	6.4	10	140		3.1	6.4	10
Methane RSK-175 (µg/L)		1500		0.63	2	5	6100		0.63	2	5	7400		0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	0.79	J	0.63	2	5	2200		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		196		3.1	6.4	10	147		3.1	6.4	10	160		3.1	6.4	10	98		3.1	6.4	10	218		3.1	6.4	10	209		3.1	6.4	10	62		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0049-21A					G0066R-21A					G0067-21A					G0070-21A					G0075-21A					G0076-21A					G0077-21A				
SAMPLE DATE	HALs	5/21/2021					5/23/2021					5/22/2021					5/20/2021					5/20/2021					5/20/2021					5/26/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.084	0.2	0.21	1.2	J	0.083	0.2	0.21	<	U	0.085	0.2	0.21	<	U	0.08	0.19	0.2	<	U	0.08	0.19	0.2	<	U	0.082	0.19	0.2	4.3		0.086	0.2	0.22
1,3-Dinitrobenzene	NA	<	U	0.037	0.1	0.11	<	U	0.037	0.099	0.11	<	U	0.037	0.1	0.11	<	U	0.035	0.095	0.1	<	U	0.035	0.096	0.11	<	U	0.036	0.097	0.11	<	U	0.038	0.1	0.11
TNT	2	<	U	0.045	0.1	0.11	0.46		0.045	0.099	0.11	<	U	0.045	0.1	0.11	<	U	0.043	0.095	0.1	<	U	0.043	0.096	0.11	<	U	0.044	0.097	0.11	4.3		0.046	0.1	0.11
2,4-Dinitrotoluene	NA	<	U	0.027	0.08	0.1	0.19	J	0.027	0.079	0.099	<	U	0.028	0.081	0.1	<	U	0.026	0.076	0.095	<	U	0.026	0.077	0.096	<	U	0.027	0.078	0.097	0.061	J	0.028	0.082	0.1
2,6-Dinitrotoluene	NA	<	U	0.04	0.08	0.1	<	U	0.04	0.079	0.099	<	U	0.041	0.081	0.1	<	U	0.038	0.076	0.095	<	U	0.038	0.077	0.096	<	U	0.039	0.078	0.097	<	U	0.041	0.082	0.1
2-Amino-4,6-dinitrotoluene	NA	<	UJ	0.051	0.1	0.11	1.4	J	0.05	0.099	0.11	<	U	0.051	0.1	0.11	<	UJ	0.048	0.095	0.1	0.75		0.049	0.096	0.11	<	U	0.049	0.097	0.11	2.5		0.052	0.1	0.11
2-Nitrotoluene	NA	<	UJ	0.085	0.2	0.21	<	UJ	0.085	0.2	0.21	<	UJ	0.086	0.2	0.21	<	UJ	0.081	0.19	0.2	<	U	0.082	0.19	0.2	<	U	0.083	0.19	0.2	<	UJ	0.088	0.2	0.22
3-Nitrotoluene	NA	<	UJ	0.19	0.4	0.4	<	UJ	0.19	0.4	0.4	<	UJ	0.2	0.4	0.4	<	UJ	0.19	0.38	0.38	<	U	0.19	0.38	0.38	<	U	0.19	0.39	0.39	<	UJ	0.2	0.41	0.41
4-Amino-2,6-dinitrotoluene	NA	<	UJ	0.058	0.12	0.15	1.2	J	0.057	0.12	0.15	<	U	0.058	0.12	0.15	<	U	0.055	0.11	0.14	0.67		0.055	0.11	0.14	<	U	0.056	0.12	0.15	2.5		0.059	0.12	0.15
4-Nitrotoluene	NA	<	UJ	0.1	0.4	0.41	<	UJ	0.099	0.4	0.41	<	UJ	0.1	0.4	0.41	<	UJ	0.095	0.38	0.39	<	U	0.096	0.38	0.39	<	U	0.097	0.39	0.4	<	UJ	0.1	0.41	0.42
HMX	400	<	U	0.087	0.2	0.21	0.77	J	0.087	0.2	0.21	<	U	0.089	0.2	0.21	<	U	0.083	0.19	0.2	2	J	0.084	0.19	0.2	<	U	0.085	0.19	0.2	0.57		0.09	0.2	0.22
MNX	NA	<	U	0.15	0.4	2	<	U	0.15	0.4	2	<	U	0.16	0.4	2	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.39	1.9	<	U	0.16	0.41	2
Nitrobenzene	NA	<	U	0.091	0.2	0.21	<	U	0.09	0.2	0.21	<	U	0.092	0.2	0.21	<	U	0.086	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.089	0.19	0.2	<	U	0.093	0.2	0.22
RDX	2	<	U	0.051	0.2	0.21	1.4	J	0.051	0.2	0.21	<	U	0.052	0.2	0.21	<	U	0.049	0.19	0.2	<	U	0.049	0.19	0.2	<	U	0.05	0.19	0.2	1.2	J	0.053	0.2	0.22
Tetryl	NA	<	U	0.032	0.1	0.11	<	U	0.032	0.099	0.11	<	U	0.032	0.1	0.11	<	U	0.03	0.095	0.1	<	U	0.03	0.096	0.11	<	U	0.031	0.097	0.11	<	U	0.033	0.1	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		1.5		0.022	0.05	0.1	3.5		0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	1.6		0.022	0.05	0.1	<	U	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		1.7		0.69	1	1	4.9		0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	1.8		0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	U	0.019	0.05	0.1	0.2		0.019	0.05	0.1	15		0.038	0.1	0.2	<	U	0.019	0.05	0.1	3.3		0.019	0.05	0.1	<	U	0.019	0.05	0.1	9		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		0.8	J	0.79	1.9	4	2.4	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		400		5.2	13	25	450		5.2	13	25	120		1	2.5	5	44		1	2.5	5	190		1	2.5	5	320		2.1	5	10	140		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		3.2		0.35	0.8	1	13		0.35	0.8	1	3		0.35	0.8	1	1.1		0.35	0.8	1	2.7		0.35	0.8	1	3.4		0.35	0.8	1	4.4		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		310		3.1	6.4	10	640		3.1	6.4	10	250		3.1	6.4	10	220		3.1	6.4	10	290		3.1	6.4	10	370		3.1	6.4	10	310		3.1	6.4	10
Methane RSK-175 (µg/L)		3.3	J	0.63	2	5	4000		0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	210		0.63	2	5	530		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		138		3.1	6.4	10	284		3.1	6.4	10	111		3.1	6.4	10	98		3.1	6.4	10	129		3.1	6.4	10	164		3.1	6.4	10	138		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0078-21A					G0079-21A					G0080-21A					G0081-21A					G0082-21A					G0083-21A					G0084-21A				
SAMPLE DATE	HALs	5/26/2021					5/20/2021					5/20/2021					5/20/2021					5/20/2021					5/21/2021					5/24/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.089	0.21	0.22	<	U	0.079	0.19	0.2	<	U	0.087	0.21	0.22	<	U	0.079	0.19	0.2	3.9		0.08	0.19	0.2	<	U	0.084	0.2	0.21	<	U	0.084	0.2	0.21
1,3-Dinitrobenzene	NA	<	U	0.039	0.11	0.12	<	U	0.035	0.094	0.1	<	U	0.038	0.1	0.11	<	U	0.035	0.094	0.1	<	U	0.035	0.095	0.1	<	U	0.037	0.1	0.11	<	U	0.037	0.1	0.11
TNT	2	<	U	0.048	0.11	0.12	<	U	0.042	0.094	0.1	<	U	0.046	0.1	0.11	<	U	0.043	0.094	0.1	0.73		0.043	0.095	0.1	<	U	0.045	0.1	0.11	<	U	0.045	0.1	0.11
2,4-Dinitrotoluene	NA	<	U	0.029	0.085	0.11	<	U	0.026	0.075	0.094	<	U	0.028	0.082	0.1	<	U	0.026	0.076	0.094	<	U	0.026	0.076	0.095	<	U	0.027	0.08	0.1	<	U	0.027	0.08	0.1
2,6-Dinitrotoluene	NA	<	U	0.042	0.085	0.11	<	U	0.038	0.075	0.094	<	U	0.041	0.082	0.1	<	U	0.038	0.076	0.094	<	U	0.038	0.076	0.095	<	U	0.04	0.08	0.1	<	U	0.04	0.08	0.1
2-Amino-4,6-dinitrotoluene	NA	<	U	0.054	0.11	0.12	<	U	0.048	0.094	0.1	<	UJ	0.052	0.1	0.11	0.082	J	0.048	0.094	0.1	0.55		0.048	0.095	0.1	<	UJ	0.051	0.1	0.11	<	U	0.051	0.1	0.11
2-Nitrotoluene	NA	<	UJ	0.09	0.21	0.22	<	U	0.08	0.19	0.2	<	UJ	0.088	0.21	0.22	<	U	0.081	0.19	0.2	<	U	0.082	0.19	0.2	<	UJ	0.085	0.2	0.21	<	UJ	0.085	0.2	0.21
3-Nitrotoluene	NA	<	UJ	0.21	0.42	0.42	<	U	0.18	0.38	0.38	<	UJ	0.2	0.41	0.41	<	U	0.18	0.38	0.38	<	U	0.19	0.38	0.38	<	UJ	0.19	0.4	0.4	<	UJ	0.19	0.4	0.4
4-Amino-2,6-dinitrotoluene	NA	<	U	0.061	0.13	0.16	<	U	0.054	0.11	0.14	<	UJ	0.059	0.12	0.15	<	U	0.055	0.11	0.14	0.88		0.055	0.11	0.14	<	UJ	0.058	0.12	0.15	<	U	0.058	0.12	0.15
4-Nitrotoluene	NA	<	UJ	0.11	0.42	0.43	<	U	0.094	0.38	0.39	<	UJ	0.1	0.41	0.42	<	U	0.094	0.38	0.39	<	U	0.095	0.38	0.39	<	UJ	0.1	0.4	0.41	<	UJ	0.1	0.4	0.41
HMX	400	<	U	0.093	0.21	0.22	<	U	0.082	0.19	0.2	<	U	0.09	0.21	0.22	0.42		0.083	0.19	0.2	<	U	0.084	0.19	0.2	<	U	0.087	0.2	0.21	<	U	0.087	0.2	0.21
MNX	NA	<	U	0.16	0.42	2.1	<	U	0.14	0.38	1.9	<	U	0.16	0.41	2.1	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.4	2	<	U	0.15	0.4	2
Nitrobenzene	NA	<	U	0.096	0.21	0.22	<	U	0.086	0.19	0.2	<	U	0.094	0.21	0.22	<	U	0.086	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.091	0.2	0.21	<	U	0.091	0.2	0.21
RDX	2	<	U	0.055	0.21	0.22	<	U	0.048	0.19	0.2	<	U	0.053	0.21	0.22	0.3		0.049	0.19	0.2	0.43	J	0.049	0.19	0.2	<	U	0.051	0.2	0.21	<	U	0.051	0.2	0.21
Tetryl	NA	<	U	0.034	0.11	0.12	<	U	0.03	0.094	0.1	<	U	0.033	0.1	0.11	<	U	0.03	0.094	0.1	<	U	0.03	0.095	0.1	<	U	0.032	0.1	0.11	<	U	0.032	0.1	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		0.29		0.022	0.05	0.1	<	U	0.022	0.05	0.1	1.3		0.022	0.05	0.1	<	U	0.022	0.05	0.1	0.19		0.022	0.05	0.1	1.7		0.022	0.05	0.1	0.18		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		0.7	J	0.69	1	1	0.83	J	0.69	1	1	2.1		0.69	1	1	<	U	0.69	1	1	0.96	J	0.69	1	1	1.8		0.69	1	1	0.97	J	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	U	0.019	0.05	0.1	1.8		0.019	0.05	0.1	1.4		0.019	0.05	0.1	3.6		0.019	0.05	0.1	2.8		0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.42		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		270		5.2	13	25	50		1	2.5	5	100		1	2.5	5	140		1	2.5	5	99		1	2.5	5	280		5.2	13	25	100		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		2.9		0.35	0.8	1	5		0.35	0.8	1	8.3		0.35	0.8	1	3.6		0.35	0.8	1	4.9		0.35	0.8	1	4.2		0.35	0.8	1	4.4		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		320		3.1	6.4	10	310		3.1	6.4	10	270		3.1	6.4	10	280		3.1	6.4	10	370		3.1	6.4	10	490		3.1	6.4	10	450		3.1	6.4	10
Methane RSK-175 (µg/L)		130		0.63	2	5	<	U	0.63	2	5	1.1	J	0.63	2	5	76		0.63	2	5	850		0.63	2	5	130		0.63	2	5	8300		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		142		3.1	6.4	10	138		3.1	6.4	10	120		3.1	6.4	10	124		3.1	6.4	10	164		3.1	6.4	10	218		3.1	6.4	10	200		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0085-21A					G0086-21A					G0087-21A					G0088-21A					G0089-21A					G0090-21A					G0091-21A				
SAMPLE DATE	HALs	5/19/2021					5/26/2021					5/25/2021					5/20/2021					5/20/2021					5/20/2021					5/24/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.084	0.2	0.21	14	J	0.089	0.21	0.22	<	U	0.085	0.2	0.21	3.6	J	0.085	0.2	0.21	3.1		0.1	0.24	0.25	<	U	0.08	0.19	0.2	<	U	0.082	0.2	0.21
1,3-Dinitrobenzene	NA	<	U	0.037	0.1	0.11	<	UJ	0.039	0.11	0.12	<	U	0.037	0.1	0.11	<	UJ	0.037	0.1	0.11	<	U	0.044	0.12	0.13	<	U	0.035	0.095	0.1	<	U	0.036	0.098	0.11
TNT	2	<	U	0.045	0.1	0.11	4.9	J	0.048	0.11	0.12	<	U	0.045	0.1	0.11	0.4	J	0.046	0.1	0.11	2.3		0.054	0.12	0.13	<	U	0.043	0.095	0.1	<	U	0.044	0.098	0.11
2,4-Dinitrotoluene	NA	<	U	0.027	0.08	0.1	0.053	J	0.029	0.084	0.11	<	U	0.028	0.08	0.1	<	UJ	0.028	0.081	0.1	<	U	0.033	0.095	0.12	<	U	0.026	0.076	0.095	<	U	0.027	0.078	0.098
2,6-Dinitrotoluene	NA	<	U	0.04	0.08	0.1	<	UJ	0.042	0.084	0.11	<	U	0.04	0.08	0.1	<	UJ	0.041	0.081	0.1	<	U	0.048	0.095	0.12	<	U	0.038	0.076	0.095	<	U	0.039	0.078	0.098
2-Amino-4,6-dinitrotoluene	NA	<	U	0.051	0.1	0.11	1.4	J	0.054	0.11	0.12	0.22		0.051	0.1	0.11	0.21	J	0.051	0.1	0.11	0.85		0.06	0.12	0.13	0.095	J	0.048	0.095	0.1	0.16	J	0.05	0.098	0.11
2-Nitrotoluene	NA	<	U	0.085	0.2	0.21	<	UJ	0.09	0.21	0.22	<	UJ	0.086	0.2	0.21	<	UJ	0.087	0.2	0.21	<	U	0.1	0.24	0.25	<	U	0.081	0.19	0.2	<	UJ	0.084	0.2	0.21
3-Nitrotoluene	NA	<	U	0.19	0.4	0.4	<	UJ	0.21	0.42	0.42	<	UJ	0.2	0.4	0.4	<	UJ	0.2	0.41	0.41	<	U	0.23	0.48	0.48	<	U	0.19	0.38	0.38	<	UJ	0.19	0.39	0.39
4-Amino-2,6-dinitrotoluene	NA	<	U	0.058	0.12	0.15	1.1	J	0.061	0.13	0.16	0.7		0.058	0.12	0.15	0.22	J	0.059	0.12	0.15	1.1		0.069	0.14	0.18	<	U	0.055	0.11	0.14	0.17	J	0.056	0.12	0.15
4-Nitrotoluene	NA	<	U	0.1	0.4	0.41	<	UJ	0.11	0.42	0.43	<	UJ	0.1	0.4	0.41	<	UJ	0.1	0.41	0.42	<	U	0.12	0.48	0.49	<	U	0.095	0.38	0.39	<	UJ	0.098	0.39	0.4
HMX	400	<	U	0.088	0.2	0.21	0.44	J	0.093	0.21	0.22	0.7		0.088	0.2	0.21	<	UJ	0.089	0.2	0.21	<	U	0.1	0.24	0.25	0.62		0.083	0.19	0.2	0.3		0.086	0.2	0.21
MNX	NA	<	U	0.15	0.4	2	<	UJ	0.16	0.42	2.1	<	U	0.15	0.4	2	<	UJ	0.16	0.41	2	<	U	0.18	0.48	2.4	<	U	0.15	0.38	1.9	<	U	0.15	0.39	2
Nitrobenzene	NA	<	U	0.091	0.2	0.21	<	UJ	0.096	0.21	0.22	<	U	0.092	0.2	0.21	<	UJ	0.092	0.2	0.21	<	U	0.11	0.24	0.25	<	U	0.086	0.19	0.2	<	U	0.089	0.2	0.21
RDX	2	<	U	0.051	0.2	0.21	0.84	J	0.054	0.21	0.22	0.23		0.052	0.2	0.21	<	UJ	0.052	0.2	0.21	0.23	J	0.061	0.24	0.25	0.64		0.049	0.19	0.2	0.31		0.05	0.2	0.21
Tetryl	NA	<	U	0.032	0.1	0.11	<	UJ	0.034	0.11	0.12	<	U	0.032	0.1	0.11	<	UJ	0.032	0.1	0.11	<	U	0.038	0.12	0.13	<	U	0.03	0.095	0.1	<	U	0.031	0.098	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		0.3		0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	0.067	J	0.022	0.05	0.1	0.11		0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		0.82	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	0.84	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		0.037	J	0.019	0.05	0.1	5.4		0.019	0.05	0.1	8.2		0.019	0.05	0.1	0.81		0.019	0.05	0.1	1.5		0.019	0.05	0.1	5.1		0.019	0.05	0.1	38		0.095	0.25	0.5
Sulfide SM 9034 (mg/L)		3.2	J	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		190		5.2	13	25	180		1	2.5	5	110		1	2.5	5	260		5.2	13	25	100		1	2.5	5	150		1	2.5	5	200		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		4.1		0.35	0.8	1	3		0.35	0.8	1	2.8		0.35	0.8	1	3.2		0.35	0.8	1	4.5		0.35	0.8	1	3.5		0.35	0.8	1	3.1		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		380		3.1	6.4	10	310		3.1	6.4	10	290		3.1	6.4	10	300		3.1	6.4	10	370		3.1	6.4	10	310		3.1	6.4	10	270		3.1	6.4	10
Methane RSK-175 (µg/L)		6500		0.63	2	5	14		0.63	2	5	<	U	0.63	2	5	11		0.63	2	5	2100		0.63	2	5	17		0.63	2	5	<	U	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		169		3.1	6.4	10	138		3.1	6.4	10	129		3.1	6.4	10	133		3.1	6.4	10	164		3.1	6.4	10	138		3.1	6.4	10	120		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ
µg/L = micrograms per liter
CHAAP = Cornhusker Army Ammunition Plant
DL = detection limit
HAL = health advisory level
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MNX = mono-nitroso-RDX
NA = not available
OU = Operable Unit
PZ = piezometer
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
TNT = 2,4,6-trinitrotoluene
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0092-21A					G0093-21A					G0094-21A					G0095-21A					G0096-21A					G0097-21A					G0098-21A				
SAMPLE DATE	HALs	5/24/2021					5/21/2021					5/25/2021					5/23/2021					5/25/2021					5/23/2021					5/23/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.11	0.26	0.28	9.1		0.083	0.2	0.21	<	UJ	0.086	0.2	0.21	<	U	0.08	0.19	0.2	<	UJ	0.083	0.2	0.21	<	UJ	0.082	0.2	0.2	<	U	0.08	0.19	0.2
1,3-Dinitrobenzene	NA	<	U	0.049	0.13	0.15	<	U	0.036	0.099	0.11	<	UJ	0.038	0.1	0.11	<	U	0.035	0.095	0.1	<	UJ	0.037	0.099	0.11	<	UJ	0.036	0.098	0.11	<	U	0.035	0.095	0.1
TNT	2	<	U	0.059	0.13	0.15	3.4		0.044	0.099	0.11	19	J	0.046	0.1	0.11	<	U	0.043	0.095	0.1	0.38	J	0.045	0.099	0.11	<	UJ	0.044	0.098	0.11	<	U	0.043	0.095	0.1
2,4-Dinitrotoluene	NA	<	U	0.036	0.11	0.13	<	U	0.027	0.079	0.099	<	UJ	0.028	0.081	0.1	<	U	0.026	0.076	0.095	<	UJ	0.027	0.079	0.099	<	UJ	0.027	0.078	0.098	<	U	0.026	0.076	0.095
2,6-Dinitrotoluene	NA	<	U	0.053	0.11	0.13	<	U	0.04	0.079	0.099	<	UJ	0.041	0.081	0.1	<	U	0.038	0.076	0.095	<	UJ	0.04	0.079	0.099	<	UJ	0.039	0.078	0.098	<	U	0.038	0.076	0.095
2-Amino-4,6-dinitrotoluene	NA	<	U	0.067	0.13	0.15	2.5	J	0.05	0.099	0.11	35	J	0.26	0.51	0.56	0.55		0.048	0.095	0.1	1.1	J	0.05	0.099	0.11	<	UJ	0.049	0.098	0.11	<	U	0.048	0.095	0.1
2-Nitrotoluene	NA	<	UJ	0.11	0.26	0.28	<	UJ	0.085	0.2	0.21	<	UJ	0.087	0.2	0.21	<	UJ	0.081	0.19	0.2	<	UJ	0.085	0.2	0.21	<	UJ	0.083	0.2	0.2	<	UJ	0.082	0.19	0.2
3-Nitrotoluene	NA	<	UJ	0.26	0.53	0.53	<	UJ	0.19	0.4	0.4	<	UJ	0.2	0.41	0.41	<	UJ	0.18	0.38	0.38	<	UJ	0.19	0.4	0.4	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38
4-Amino-2,6-dinitrotoluene	NA	<	U	0.076	0.16	0.2	2.8	J	0.057	0.12	0.15	39	J	0.29	0.61	0.76	0.36	J	0.055	0.11	0.14	1.7	J	0.057	0.12	0.15	<	UJ	0.056	0.12	0.15	<	U	0.055	0.11	0.14
4-Nitrotoluene	NA	<	UJ	0.13	0.53	0.54	<	UJ	0.099	0.4	0.41	<	UJ	0.1	0.41	0.42	<	UJ	0.095	0.38	0.39	<	UJ	0.099	0.4	0.41	<	UJ	0.098	0.39	0.4	<	UJ	0.095	0.38	0.39
HMX	400	<	U	0.12	0.26	0.28	0.96		0.087	0.2	0.21	<	UJ	0.089	0.2	0.21	<	U	0.083	0.19	0.2	39	J	0.87	2	2.1	<	UJ	0.086	0.2	0.2	<	U	0.084	0.19	0.2
MNX	NA	<	U	0.2	0.53	2.6	<	U	0.15	0.4	2	<	UJ	0.16	0.41	2	<	U	0.15	0.38	1.9	<	UJ	0.15	0.4	2	4.1	J	0.15	0.39	2	<	U	0.15	0.38	1.9
Nitrobenzene	NA	<	U	0.12	0.26	0.28	<	U	0.09	0.2	0.21	15	J	0.093	0.2	0.21	<	U	0.086	0.19	0.2	<	UJ	0.09	0.2	0.21	<	UJ	0.089	0.2	0.2	0.52		0.087	0.19	0.2
RDX	2	<	U	0.068	0.26	0.28	7.8		0.051	0.2	0.21	8.1	J	0.052	0.2	0.21	<	U	0.049	0.19	0.2	58	J	0.51	2	2.1	0.71	J	0.05	0.2	0.2	<	U	0.049	0.19	0.2
Tetryl	NA	<	U	0.042	0.13	0.15	<	U	0.031	0.099	0.11	<	UJ	0.032	0.1	0.11	<	U	0.03	0.095	0.1	<	UJ	0.031	0.099	0.11	<	UJ	0.031	0.098	0.11	<	U	0.03	0.095	0.1
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		<	U	0.022	0.05	0.1	0.63		0.022	0.05	0.1	4.2		0.022	0.05	0.1	2.3		0.22	0.5	1	4.3		0.044	0.1	0.2	2.2		0.022	0.05	0.1	2.4		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	UJ	0.69	1	1	<	U	0.69	1	1	2.5		0.69	1	1	3.9		0.69	1	1	6.1	J	0.69	1	1	5.3		0.69	1	1	3.7		0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	U	0.019	0.05	0.1	4.4		0.019	0.05	0.1	<	U	0.48	1.3	2.5	0.38		0.019	0.05	0.1	6.8	J	0.019	0.05	0.1	0.027	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		350		5.2	13	25	110		1	2.5	5	89		1	2.5	5	530		5.2	13	25	72		1	2.5	5	130		1	2.5	5	65		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		2.7		0.35	0.8	1	4		0.35	0.8	1	6.5		0.35	0.8	1	12		0.35	0.8	1	46		0.69	1.6	2	18		0.35	0.8	1	8.6		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		360		3.1	6.4	10	330		3.1	6.4	10	340		3.1	6.4	10	800		3.1	6.4	10	490		3.1	6.4	10	620		3.1	6.4	10	450		3.1	6.4	10
Methane RSK-175 (µg/L)		3.6	J	0.63	2	5	3500		0.63	2	5	13000		0.63	2	5	10000		0.63	2	5	5900		0.63	2	5	10000		0.63	2	5	12000		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		160		3.1	6.4	10	147		3.1	6.4	10	151		3.1	6.4	10	356		3.1	6.4	10	218		3.1	6.4	10	276		3.1	6.4	10	200		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ
µg/L = micrograms per liter
CHAAP = Cornhusker Army Ammunition Plant
DL = detection limit
HAL = health advisory level
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MNX = mono-nitroso-RDX
NA = not available
OU = Operable Unit
PZ = piezometer
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
TNT = 2,4,6-trinitrotoluene
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0099-21A					G0100-21A					G0101-21A					G0102-21A					G0103-21A					G0104-21A					G0105-21A				
SAMPLE DATE	HALs	5/23/2021					5/23/2021					5/24/2021					5/21/2021					5/21/2021					5/21/2021					5/21/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.083	0.2	0.21	<	U	0.082	0.2	0.21	<	U	0.081	0.19	0.2	<	U	0.086	0.21	0.22	<	UJ	0.085	0.2	0.21	<	U	0.087	0.21	0.22	<	U	0.081	0.19	0.2
1,3-Dinitrobenzene	NA	<	U	0.036	0.098	0.11	<	U	0.036	0.098	0.11	<	U	0.036	0.097	0.11	<	U	0.038	0.1	0.11	<	UJ	0.037	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.036	0.097	0.11
TNT	2	<	U	0.044	0.098	0.11	<	U	0.044	0.098	0.11	<	U	0.044	0.097	0.11	<	U	0.046	0.1	0.11	<	UJ	0.045	0.1	0.11	<	U	0.046	0.1	0.11	<	U	0.043	0.097	0.11
2,4-Dinitrotoluene	NA	<	U	0.027	0.079	0.098	<	U	0.027	0.078	0.098	<	U	0.027	0.077	0.097	<	U	0.028	0.082	0.1	<	UJ	0.028	0.081	0.1	<	U	0.028	0.083	0.1	<	U	0.026	0.077	0.097
2,6-Dinitrotoluene	NA	<	U	0.039	0.079	0.098	7.4	J	0.039	0.078	0.098	<	U	0.039	0.077	0.097	<	U	0.041	0.082	0.1	<	UJ	0.04	0.081	0.1	<	U	0.041	0.083	0.1	<	U	0.039	0.077	0.097
2-Amino-4,6-dinitrotoluene	NA	<	U	0.05	0.098	0.11	<	U	0.05	0.098	0.11	<	U	0.049	0.097	0.11	<	UJ	0.052	0.1	0.11	<	UJ	0.051	0.1	0.11	<	UJ	0.052	0.1	0.11	<	UJ	0.049	0.097	0.11
2-Nitrotoluene	NA	<	UJ	0.084	0.2	0.21	<	UJ	0.084	0.2	0.21	<	UJ	0.083	0.19	0.2	<	UJ	0.088	0.21	0.22	<	UJ	0.086	0.2	0.21	<	UJ	0.088	0.21	0.22	<	UJ	0.083	0.19	0.2
3-Nitrotoluene	NA	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.39	0.39	<	UJ	0.2	0.41	0.41	<	UJ	0.2	0.4	0.4	<	UJ	0.2	0.41	0.41	<	UJ	0.19	0.39	0.39
4-Amino-2,6-dinitrotoluene	NA	<	U	0.057	0.12	0.15	<	U	0.057	0.12	0.15	<	U	0.056	0.12	0.15	<	UJ	0.059	0.12	0.15	<	UJ	0.058	0.12	0.15	<	UJ	0.06	0.12	0.15	<	UJ	0.056	0.12	0.14
4-Nitrotoluene	NA	<	UJ	0.098	0.39	0.4	<	UJ	0.098	0.39	0.4	<	UJ	0.097	0.39	0.4	<	UJ	0.1	0.41	0.42	<	UJ	0.1	0.4	0.41	<	UJ	0.1	0.41	0.42	<	UJ	0.097	0.39	0.4
HMX	400	1.3		0.086	0.2	0.21	<	U	0.086	0.2	0.21	<	U	0.085	0.19	0.2	<	U	0.09	0.21	0.22	<	UJ	0.088	0.2	0.21	<	U	0.09	0.21	0.22	<	U	0.085	0.19	0.2
MNX	NA	0.98	J	0.15	0.39	2	<	U	0.15	0.39	2	<	U	0.15	0.39	1.9	<	U	0.16	0.41	2.1	<	UJ	0.16	0.4	2	<	U	0.16	0.41	2.1	<	U	0.15	0.39	1.9
Nitrobenzene	NA	<	U	0.09	0.2	0.21	<	U	0.089	0.2	0.21	<	U	0.088	0.19	0.2	<	U	0.093	0.21	0.22	<	UJ	0.092	0.2	0.21	<	U	0.094	0.21	0.22	<	U	0.088	0.19	0.2
RDX	2	97		0.51	2	2.1	<	U	0.05	0.2	0.21	<	U	0.05	0.19	0.2	8.5	J	0.053	0.21	0.22	<	UJ	0.052	0.2	0.21	<	U	0.053	0.21	0.22	<	U	0.05	0.19	0.2
Tetryl	NA	<	U	0.031	0.098	0.11	<	U	0.031	0.098	0.11	<	U	0.031	0.097	0.11	<	U	0.033	0.1	0.11	<	UJ	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.031	0.097	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		0.63		0.022	0.05	0.1	6.7		0.044	0.1	0.2	0.82		0.022	0.05	0.1	3.5		0.22	0.5	1	0.22		0.022	0.05	0.1	0.43		0.022	0.05	0.1	0.65		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		1.3		0.69	1	1	7.9		1.1	1.7	1.7	2.2		0.69	1	1	<	U	6.9	10	10	2.7		0.69	1	1	1.1		0.69	1	1	1.2	J	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		5.8		0.019	0.05	0.1	0.097	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.32		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		0.8	J	0.79	1.9	4	2.4	J	0.79	1.9	4	1.6	J	0.79	1.9	4	4.8		0.79	1.9	4	34	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		95		1	2.5	5	270		5.2	13	25	530		5.2	13	25	740		5.2	13	25	970		10	25	50	950	J	10	25	50	1200		10	25	50
Dissolved Organic Carbon SM 9060A (mg/L)		4.8		0.35	0.8	1	12		0.35	0.8	1	8.5		0.35	0.8	1	88		0.69	1.6	2	86		0.75	1.7	2.2	5.1		0.35	0.8	1	4.2		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		260		3.1	6.4	10	810		3.1	6.4	10	760		3.1	6.4	10	770		3.1	6.4	10	580		3.1	6.4	10	500		3.1	6.4	10	460		3.1	6.4	10
Methane RSK-175 (µg/L)		610		0.63	2	5	11000		0.63	2	5	3900	J	0.63	2	5	120		0.63	2	5	120		0.63	2	5	950	J	0.63	2	5	840	J	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		116		3.1	6.4	10	360		3.1	6.4	10	338		3.1	6.4	10	342		3.1	6.4	10	258		3.1	6.4	10	222		3.1	6.4	10	204		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0106-21A					G0107-21A					G0108-21A					G0109-21A					G0110-21A					G0111-21A					G0112-21A				
SAMPLE DATE	HALs	5/21/2021					5/21/2021					5/22/2021					5/23/2021					5/22/2021					5/24/2021					5/23/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.085	0.2	0.21	<	U	0.086	0.21	0.22	<	UJ	0.11	0.26	0.27	<	U	0.081	0.19	0.2	<	U	0.08	0.19	0.2	4.6		0.08	0.19	0.2	<	UJ	0.083	0.2	0.21
1,3-Dinitrobenzene	NA	<	U	0.037	0.1	0.11	<	U	0.038	0.1	0.11	<	UJ	0.048	0.13	0.14	<	U	0.036	0.097	0.11	<	U	0.035	0.095	0.1	1.7	J	0.035	0.095	0.1	<	UJ	0.037	0.099	0.11
TNT	2	<	U	0.045	0.1	0.11	<	U	0.046	0.1	0.11	<	UJ	0.058	0.13	0.14	<	U	0.043	0.097	0.11	<	U	0.043	0.095	0.1	6.6		0.043	0.095	0.1	<	UJ	0.045	0.099	0.11
2,4-Dinitrotoluene	NA	<	U	0.028	0.081	0.1	<	U	0.028	0.082	0.1	<	UJ	0.036	0.1	0.13	<	U	0.026	0.077	0.097	<	U	0.026	0.076	0.095	0.44		0.026	0.076	0.095	<	UJ	0.027	0.079	0.099
2,6-Dinitrotoluene	NA	<	U	0.04	0.081	0.1	<	U	0.041	0.082	0.1	<	UJ	0.052	0.1	0.13	<	U	0.039	0.077	0.097	<	U	0.038	0.076	0.095	<	U	0.038	0.076	0.095	<	UJ	0.04	0.079	0.099
2-Amino-4,6-dinitrotoluene	NA	<	UJ	0.051	0.1	0.11	<	UJ	0.052	0.1	0.11	<	UJ	0.066	0.13	0.14	<	U	0.049	0.097	0.11	<	U	0.048	0.095	0.1	4.9		0.048	0.095	0.1	0.14	J	0.05	0.099	0.11
2-Nitrotoluene	NA	<	UJ	0.086	0.2	0.21	<	UJ	0.088	0.21	0.22	<	UJ	0.11	0.26	0.27	<	UJ	0.083	0.19	0.2	<	UJ	0.082	0.19	0.2	<	UJ	0.081	0.19	0.2	<	UJ	0.085	0.2	0.21
3-Nitrotoluene	NA	<	UJ	0.2	0.4	0.4	<	UJ	0.2	0.41	0.41	<	UJ	0.25	0.52	0.52	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.4	0.4
4-Amino-2,6-dinitrotoluene	NA	<	UJ	0.058	0.12	0.15	<	UJ	0.059	0.12	0.15	<	UJ	0.075	0.16	0.19	<	U	0.056	0.12	0.14	<	U	0.055	0.11	0.14	6.8		0.055	0.11	0.14	0.29	J	0.057	0.12	0.15
4-Nitrotoluene	NA	<	UJ	0.1	0.4	0.41	<	UJ	0.1	0.41	0.42	<	UJ	0.13	0.52	0.53	<	UJ	0.097	0.39	0.4	<	UJ	0.095	0.38	0.39	<	UJ	0.095	0.38	0.39	<	UJ	0.099	0.4	0.41
HMX	400	<	U	0.088	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.11	0.26	0.27	3.5		0.085	0.19	0.2	<	U	0.084	0.19	0.2	<	U	0.083	0.19	0.2	2.1	J	0.087	0.2	0.21
MNX	NA	<	U	0.16	0.4	2	<	U	0.16	0.41	2.1	<	UJ	0.2	0.52	2.6	<	U	0.15	0.39	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9	<	UJ	0.15	2	0.21
Nitrobenzene	NA	<	U	0.092	0.2	0.21	<	U	0.093	0.21	0.22	<	UJ	0.12	0.26	0.27	<	U	0.088	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.087	0.19	0.2	<	UJ	0.09	0.2	0.21
RDX	2	<	U	0.052	0.2	0.21	<	U	0.053	0.21	0.22	<	UJ	0.067	0.26	0.27	<	U	0.05	0.19	0.2	<	U	0.049	0.19	0.2	6.5	J	0.049	0.19	0.2	1.1	J	0.051	0.2	0.21
Tetryl	NA	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	UJ	0.041	0.13	0.14	<	U	0.031	0.097	0.11	<	U	0.03	0.095	0.1	<	U	0.03	0.095	0.1	<	UJ	0.032	0.099	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		0.052	J	0.022	0.05	0.1	0.17		0.022	0.05	0.1	3.1		0.022	0.05	0.1	0.56		0.022	0.05	0.1	5.9		0.022	0.05	0.1	0.33		0.022	0.05	0.1	0.3		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	U	0.69	1	1	0.74	J	0.69	1	1	4.8		0.69	1	1	0.97	J	0.69	1	1	8.1		0.69	1	1	1.9		0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		0.028	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	6.5		0.019	0.05	0.1	7.5		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	2.4	J	0.79	1.9	4	0.8	J	0.79	1.9	4	1.6	J	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		1200		10	25	50	1200		10	25	50	13		1	2.5	5	120		1	2.5	5	42		1	2.5	5	200		1	2.5	5	100	J	1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		4		0.35	0.8	1	4.4		0.35	0.8	1	12		0.35	0.8	1	2.9		0.35	0.8	1	9.6		0.35	0.8	1	8.2		0.35	0.8	1	3.9		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		440		3.1	6.4	10	450		3.1	6.4	10	560		3.1	6.4	10	270		3.1	6.4	10	730		3.1	6.4	10	910		3.1	6.4	10	260		3.1	6.4	10
Methane RSK-175 (µg/L)		2	J	0.63	2	5	200	J	0.63	2	5	16000		0.63	2	5	630		0.63	2	5	13000		0.63	2	5	3400		0.63	2	5	1900		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		196		3.1	6.4	10	200		3.1	6.4	10	249		3.1	6.4	10	120		3.1	6.4	10	324		3.1	6.4	10	404		3.1	6.4	10	116		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0113-21A					G0114-21A					G0115-21A					G0116-21A					G0117-21A					G0118-21A					G0119-21A				
SAMPLE DATE	HALs	5/23/2021					5/22/2021					5/24/2021					5/22/2021					5/22/2021					5/22/2021					5/23/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.08	0.19	0.2	<	U	0.081	0.19	0.2	<	UJ	0.092	0.22	0.23	<	UJ	0.082	0.19	0.2	<	U	0.082	0.19	0.2	<	UJ	0.081	0.19	0.2	<	U	0.08	0.19	0.2
1,3-Dinitrobenzene	NA	<	U	0.035	0.096	0.11	<	U	0.035	0.096	0.11	<	UJ	0.041	0.11	0.12	<	UJ	0.036	0.097	0.11	<	U	0.036	0.097	0.11	<	UJ	0.036	0.097	0.11	<	U	0.035	0.096	0.11
TNT	2	<	U	0.043	0.096	0.11	<	U	0.043	0.096	0.11	<	UJ	0.049	0.11	0.12	<	UJ	0.044	0.097	0.11	<	U	0.044	0.097	0.11	<	UJ	0.043	0.097	0.11	<	U	0.043	0.096	0.11
2,4-Dinitrotoluene	NA	<	U	0.026	0.077	0.096	<	U	0.026	0.077	0.096	<	UJ	0.03	0.088	0.11	<	UJ	0.027	0.078	0.097	<	U	0.027	0.078	0.097	<	UJ	0.026	0.077	0.097	<	U	0.026	0.077	0.096
2,6-Dinitrotoluene	NA	<	U	0.038	0.077	0.096	<	U	0.038	0.077	0.096	<	UJ	0.044	0.088	0.11	<	UJ	0.039	0.078	0.097	<	U	0.039	0.078	0.097	<	UJ	0.039	0.077	0.097	<	U	0.038	0.077	0.096
2-Amino-4,6-dinitrotoluene	NA	<	U	0.048	0.096	0.11	<	U	0.049	0.096	0.11	<	UJ	0.056	0.11	0.12	<	UJ	0.049	0.097	0.11	<	U	0.049	0.097	0.11	<	UJ	0.049	0.097	0.11	<	U	0.049	0.096	0.11
2-Nitrotoluene	NA	<	UJ	0.082	0.19	0.2	<	UJ	0.082	0.19	0.2	<	UJ	0.094	0.22	0.23	<	UJ	0.083	0.19	0.2	<	UJ	0.083	0.19	0.2	<	UJ	0.083	0.19	0.2	<	UJ	0.082	0.19	0.2
3-Nitrotoluene	NA	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.38	0.38	<	UJ	0.21	0.44	0.44	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38
4-Amino-2,6-dinitrotoluene	NA	<	U	0.055	0.11	0.14	<	U	0.055	0.11	0.14	<	UJ	0.063	0.13	0.16	<	UJ	0.056	0.12	0.15	<	U	0.056	0.12	0.15	<	UJ	0.056	0.12	0.14	<	U	0.055	0.11	0.14
4-Nitrotoluene	NA	<	UJ	0.096	0.38	0.39	<	UJ	0.096	0.38	0.39	<	UJ	0.11	0.44	0.45	<	UJ	0.097	0.39	0.4	<	UJ	0.097	0.39	0.4	<	UJ	0.097	0.39	0.4	<	UJ	0.096	0.38	0.39
HMX	400	0.77		0.084	0.19	0.2	<	U	0.084	0.19	0.2	<	UJ	0.096	0.44	2.2	<	UJ	0.085	0.19	0.2	<	U	0.085	0.19	0.2	<	UJ	0.085	0.19	0.2	<	U	0.084	0.19	0.2
MNX	NA	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9	<	UJ	0.17	0.22	0.23	<	UJ	0.15	0.39	1.9	<	U	0.15	0.39	1.9	<	UJ	0.15	0.39	1.9	<	U	0.15	0.38	1.9
Nitrobenzene	NA	<	U	0.087	0.19	0.2	<	U	0.087	0.19	0.2	<	UJ	0.1	0.22	0.23	<	UJ	0.088	0.19	0.2	<	U	0.089	0.19	0.2	0.88	J	0.088	0.19	0.2	<	U	0.087	0.19	0.2
RDX	2	<	U	0.049	0.19	0.2	<	U	0.049	0.19	0.2	<	UJ	0.057	0.22	0.23	<	UJ	0.05	0.19	0.2	<	U	0.05	0.19	0.2	<	UJ	0.05	0.19	0.2	<	U	0.049	0.19	0.2
Tetryl	NA	<	U	0.03	0.096	0.11	<	U	0.03	0.096	0.11	<	UJ	0.035	0.11	0.12	<	UJ	0.031	0.097	0.11	<	U	0.031	0.097	0.11	<	UJ	0.031	0.097	0.11	<	U	0.03	0.096	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		0.98		0.022	0.05	0.1	1.5		0.022	0.05	0.1	3.8	J	0.022	0.05	0.1	14		0.22	0.5	1	7.3		0.11	0.25	0.5	8.4		1.1	2.5	5	0.35		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		1.7		0.69	1	1	1.9		0.69	1	1	4.2	J	0.69	1	1	18		2.3	3.3	3.3	8.2		0.69	1	1	13		1.7	2.5	2.5	1.1		0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	UJ	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		2.4	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	1.6	J	0.79	1.9	4	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		100		1	2.5	5	72		1	2.5	5	420	J	5.2	13	25	240		5.2	13	25	350		5.2	13	25	43		1	2.5	5	680		10	25	50
Dissolved Organic Carbon SM 9060A (mg/L)		4.7		0.35	0.8	1	3.7		0.35	0.8	1	10	J	0.35	0.8	1	16		0.35	0.8	1	11		0.35	0.8	1	22		0.35	0.8	1	4.7		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		300		3.1	6.4	10	280		3.1	6.4	10	820	J	3.1	6.4	10	1100		3.1	6.4	10	980		3.1	6.4	10	770		3.1	6.4	10	480		3.1	6.4	10
Methane RSK-175 (µg/L)		11000		0.63	2	5	5500		0.63	2	5	11000	J	0.63	2	5	9900		0.63	2	5	15000		0.63	2	5	15000		0.63	2	5	2100	J	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		133		3.1	6.4	10	124		3.1	6.4	10	364.4	J	3.1	6.4	10	489		3.1	6.4	10	436		3.1	6.4	10	342		3.1	6.4	10	213		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	G0121-21A					G0122-21A					G0123-21A					PZ001-21A					PZ004-21A					PZ005-21A					PZ007-21A				
SAMPLE DATE	HALs	5/24/2021					5/23/2021					5/24/2021					5/24/2021					5/24/2021					5/24/2021					5/25/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	UJ	0.083	0.2	0.21	<	U	0.083	0.2	0.21	<	UJ	0.082	0.19	0.2	<	U	0.081	0.19	0.2	<	U	0.083	0.2	0.21	<	U	0.085	0.2	0.21	<	U	0.085	0.2	0.21
1,3-Dinitrobenzene	NA	<	UJ	0.036	0.099	0.11	<	U	0.036	0.098	0.11	<	UJ	0.036	0.097	0.11	<	U	0.035	0.096	0.11	<	U	0.036	0.098	0.11	<	U	0.037	0.1	0.11	<	U	0.037	0.1	0.11
TNT	2	<	UJ	0.045	0.099	0.11	<	U	0.044	0.098	0.11	<	UJ	0.044	0.097	0.11	<	U	0.043	0.096	0.11	<	U	0.044	0.098	0.11	<	U	0.045	0.1	0.11	<	U	0.045	0.1	0.11
2,4-Dinitrotoluene	NA	<	UJ	0.027	0.079	0.099	<	U	0.027	0.079	0.098	<	UJ	0.027	0.078	0.097	<	U	0.026	0.077	0.096	<	U	0.027	0.079	0.098	<	U	0.028	0.081	0.1	<	U	0.028	0.081	0.1
2,6-Dinitrotoluene	NA	<	UJ	0.04	0.079	0.099	<	U	0.039	0.079	0.098	<	UJ	0.039	0.078	0.097	<	U	0.038	0.077	0.096	<	U	0.039	0.079	0.098	<	U	0.04	0.081	0.1	<	U	0.04	0.081	0.1
2-Amino-4,6-dinitrotoluene	NA	<	UJ	0.05	0.099	0.11	<	U	0.05	0.098	0.11	<	UJ	0.049	0.097	0.11	<	U	0.049	0.096	0.11	<	U	0.05	0.098	0.11	<	U	0.051	0.1	0.11	<	U	0.051	0.1	0.11
2-Nitrotoluene	NA	<	UJ	0.085	0.2	0.21	<	UJ	0.084	0.2	0.21	<	UJ	0.083	0.19	0.2	<	UJ	0.082	0.19	0.2	<	UJ	0.084	0.2	0.21	<	UJ	0.086	0.2	0.21	<	UJ	0.086	0.2	0.21
3-Nitrotoluene	NA	<	UJ	0.19	0.4	0.4	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.39	0.39	<	UJ	0.2	0.4	0.4	<	UJ	0.2	0.4	0.4
4-Amino-2,6-dinitrotoluene	NA	<	UJ	0.057	0.12	0.15	<	U	0.057	0.12	0.15	<	UJ	0.056	0.12	0.15	<	U	0.055	0.12	0.14	<	U	0.057	0.12	0.15	<	U	0.058	0.12	0.15	<	U	0.058	0.12	0.15
4-Nitrotoluene	NA	<	UJ	0.099	0.4	0.41	<	UJ	0.098	0.39	0.4	<	UJ	0.097	0.39	0.4	<	UJ	0.096	0.38	0.39	<	UJ	0.098	0.39	0.4	<	UJ	0.1	0.4	0.41	<	UJ	0.1	0.4	0.41
HMX	400	<	UJ	0.087	0.2	0.21	9.6	J	0.086	0.39	2	19	J	0.085	0.19	0.2	0.3	J	0.084	0.19	0.2	<	U	0.086	0.2	0.21	<	U	0.088	0.4	2	<	U	0.088	0.2	0.21
MNX	NA	<	UJ	0.15	0.4	2	<	U	0.15	0.2	0.21	<	UJ	0.15	0.39	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.39	2	<	U	0.16	0.2	0.21	<	U	0.16	0.4	2
Nitrobenzene	NA	<	UJ	0.09	0.2	0.21	<	U	0.09	0.2	0.21	<	UJ	0.088	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.09	0.2	0.21	<	U	0.092	0.2	0.21	<	U	0.092	0.2	0.21
RDX	2	<	UJ	0.051	0.2	0.21	82	J	0.51	2	2.1	<	UJ	0.05	0.19	0.2	<	U	0.049	0.19	0.2	<	U	0.051	0.2	0.21	<	U	0.052	0.2	0.21	<	U	0.052	0.2	0.21
Tetryl	NA	<	UJ	0.031	0.099	0.11	<	U	0.031	0.098	0.11	<	UJ	0.031	0.097	0.11	<	U	0.031	0.096	0.11	<	U	0.031	0.098	0.11	<	U	0.032	0.1	0.11	<	U	0.032	0.1	0.11
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		24		4.4	10	20	3.3		0.22	0.5	1	1.9	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	0.035	J	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		44		3.4	5	5	5.6		0.69	1	1	3.5	J	0.69	1	1	0.85	J	0.69	1	1	0.81	J	0.69	1	1	<	U	0.69	1	1	<	UJ	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		0.054	J	0.019	0.05	0.1	0.68		0.019	0.05	0.1	<	UJ	0.019	0.05	0.1	0.059	J	0.019	0.05	0.1	1.4		0.019	0.05	0.1	8.5		0.019	0.05	0.1	0.8		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		4.8		0.79	1.9	4	4.8		0.79	1.9	4	<	UJ	0.79	1.9	4	2.4	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		45		5.2	13	25	360		5.2	13	25	230	J	5.2	13	25	1300	J	10	25	50	1200		10	25	50	1400		10	25	50	510	J	5.2	13	25
Dissolved Organic Carbon SM 9060A (mg/L)		650		6.6	15	19	32		0.35	0.8	1	9.4	J	0.35	0.8	1	6.6		0.35	0.8	1	6.2		0.35	0.8	1	7.7		0.35	0.8	1	3.2		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		660		3.1	6.4	10	1100		3.1	6.4	10	760	J	3.1	6.4	10	520		3.1	6.4	10	510		3.1	6.4	10	630		3.1	6.4	10	390		3.1	6.4	10
Methane RSK-175 (µg/L)		10000		0.63	2	5	11000		0.63	2	5	18000	J	0.63	2	5	<	U	0.63	2	5	1	J	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		293		3.1	6.4	10	489		3.1	6.4	10	337.8	J	3.1	6.4	10	231		3.1	6.4	10	227		3.1	6.4	10	280		3.1	6.4	10	173		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	PZ009-21A					PZ010-21A					PZ011-21A					PZ012-21A					PZ013-21A					PZ014-21A					PZ015-21A				
SAMPLE DATE	HALs	5/22/2021					5/22/2021					5/22/2021					5/23/2021					5/22/2021					5/23/2021					5/21/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	1.5		0.08	0.19	0.2	<	U	0.081	0.19	0.2	<	U	0.083	0.2	0.21	<	U	0.081	0.19	0.2	<	U	0.081	0.19	0.2	<	U	0.081	0.19	0.2	0.18	J	0.095	0.23	0.24
1,3-Dinitrobenzene	NA	<	U	0.035	0.095	0.1	<	U	0.035	0.096	0.11	<	U	0.036	0.099	0.11	<	U	0.036	0.096	0.11	<	U	0.036	0.096	0.11	<	U	0.035	0.096	0.11	<	U	0.042	0.11	0.12
TNT	2	0.78		0.043	0.095	0.1	<	U	0.043	0.096	0.11	<	U	0.044	0.099	0.11	<	U	0.043	0.096	0.11	0.4		0.043	0.096	0.11	<	U	0.043	0.096	0.11	<	U	0.051	0.11	0.12
2,4-Dinitrotoluene	NA	<	U	0.026	0.076	0.095	<	U	0.026	0.077	0.096	<	U	0.027	0.079	0.099	<	U	0.026	0.077	0.096	<	U	0.026	0.077	0.096	<	U	0.026	0.077	0.096	<	U	0.031	0.091	0.11
2,6-Dinitrotoluene	NA	<	U	0.038	0.076	0.095	<	U	0.038	0.077	0.096	<	U	0.04	0.079	0.099	<	U	0.039	0.077	0.096	<	U	0.039	0.077	0.096	<	U	0.039	0.077	0.096	<	U	0.045	0.091	0.11
2-Amino-4,6-dinitrotoluene	NA	0.74	J	0.048	0.095	0.1	<	U	0.049	0.096	0.11	<	U	0.05	0.099	0.11	<	U	0.049	0.096	0.11	4.9		0.049	0.096	0.11	<	U	0.049	0.096	0.11	<	UJ	0.057	0.11	0.12
2-Nitrotoluene	NA	<	UJ	0.082	0.19	0.2	<	UJ	0.082	0.19	0.2	<	UJ	0.084	0.2	0.21	<	UJ	0.082	0.19	0.2	<	UJ	0.082	0.19	0.2	<	UJ	0.082	0.19	0.2	<	UJ	0.097	0.23	0.24
3-Nitrotoluene	NA	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38	<	UJ	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38	<	UJ	0.22	0.45	0.45
4-Amino-2,6-dinitrotoluene	NA	0.72		0.055	0.11	0.14	1.5	J	0.055	0.12	0.14	0.27	J	0.057	0.12	0.15	<	U	0.056	0.12	0.14	5.6		0.056	0.12	0.14	<	U	0.055	0.12	0.14	<	UJ	0.065	0.14	0.17
4-Nitrotoluene	NA	<	UJ	0.095	0.38	0.39	<	UJ	0.096	0.38	0.39	<	UJ	0.099	0.39	0.4	<	UJ	0.096	0.38	0.39	<	UJ	0.096	0.39	0.39	<	UJ	0.096	0.38	0.39	<	UJ	0.11	0.45	0.46
HMX	400	<	U	0.084	0.19	0.2	<	U	0.084	0.19	0.2	<	U	0.086	0.2	0.21	<	U	0.084	0.19	0.2	<	U	0.084	0.19	0.2	<	U	0.084	0.19	0.2	<	U	0.099	0.23	0.24
MNX	NA	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.39	2	<	U	0.15	0.38	1.9	<	U	0.15	0.39	1.9	<	U	0.15	0.38	1.9	<	U	0.17	0.45	2.3
Nitrobenzene	NA	<	U	0.087	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.09	0.2	0.21	<	U	0.088	0.19	0.2	<	U	0.088	0.19	0.2	<	U	0.088	0.19	0.2	<	U	0.1	0.23	0.24
RDX	2	<	U	0.049	0.19	0.2	<	U	0.049	0.19	0.2	<	U	0.051	0.2	0.21	<	U	0.05	0.19	0.2	<	U	0.05	0.19	0.2	<	U	0.05	0.19	0.2	<	U	0.058	0.23	0.24
Tetryl	NA	<	U	0.03	0.095	0.1	<	U	0.031	0.096	0.11	<	U	0.031	0.099	0.11	<	U	0.031	0.096	0.11	<	U	0.031	0.096	0.11	<	U	0.031	0.096	0.11	<	U	0.036	0.11	0.12
LABORATORY WATER QUALITY PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		<	U	0.022	0.05	0.1	0.24		0.022	0.05	0.1	8.5		0.22	0.5	1	2.8		0.022	0.05	0.1	1.4		0.022	0.05	0.1	<	U	0.022	0.05	0.17	0.67		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	UJ	0.69	1	1	0.84	J	0.69	1	1	13		1.4	2	2	5.2		0.69	1	1	2.1		0.69	1	1	0.95	J	0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		8.1		0.019	0.05	0.1	7.2		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	5.6		0.019	0.05	0.1	0.92		0.019	0.05	0.1	12		0.038	0.1	0.2
Sulfide SM 9034 (mg/L)		<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	1.6	J	0.79	1.9	4	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		740		10	25	50	680		10	25	50	480		5.2	13	25	450		5.2	13	25	310		5.2	13	25	420		5.2	13	25	77		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		5.8		0.35	0.8	1	6.3		0.35	0.8	1	11		0.35	0.8	1	9		0.35	0.8	1	7.4		0.35	0.8	1	5.5		0.35	0.8	1	3.8		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		520		3.1	6.4	10	520		3.1	6.4	10	810		3.1	6.4	10	780		3.1	6.4	10	890		3.1	6.4	10	580		3.1	6.4	10	210		3.1	6.4	10
Methane RSK-175 (µg/L)		<	U	0.63	2	5	1700		0.63	2	5	12000		0.63	2	5	6300		0.63	2	5	3900		0.63	2	5	790		0.63	2	5	550		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		231		3.1	6.4	10	231		3.1	6.4	10	360		3.1	6.4	10	347		3.1	6.4	10	396		3.1	6.4	10	258		3.1	6.4	10	93		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-1
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY WATER QUALITY PARAMETERS, OU1 ON-POST MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

FIELD ID	CHAAP	PZ016-21A					PZ017R-21A					PZ018-21A					PZ019-21A					PZ020-21A				
SAMPLE DATE	HALs	5/22/2021					5/26/2021					5/25/2021					5/24/2021					5/26/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																										
1,3,5-Trinitrobenzene	NA	<	U	0.083	0.2	0.21	1.1		0.088	0.21	0.22	<	U	0.091	0.22	0.23	<	U	0.086	0.2	0.21	2.2		0.087	0.21	0.22
1,3-Dinitrobenzene	NA	<	U	0.036	0.098	0.11	<	U	0.038	0.1	0.11	<	U	0.04	0.11	0.12	<	U	0.038	0.1	0.11	<	U	0.038	0.1	0.11
TNT	2	<	U	0.044	0.098	0.11	10		0.047	0.1	0.11	4.6		0.049	0.11	0.12	<	U	0.046	0.1	0.11	3.8		0.047	0.1	0.11
2,4-Dinitrotoluene	NA	<	U	0.027	0.079	0.098	<	U	0.029	0.083	0.1	<	U	0.03	0.086	0.11	<	U	0.028	0.082	0.1	<	U	0.028	0.083	0.1
2,6-Dinitrotoluene	NA	<	U	0.039	0.079	0.098	0.36	J	0.042	0.083	0.1	<	U	0.043	0.086	0.11	<	U	0.041	0.082	0.1	<	U	0.042	0.083	0.1
2-Amino-4,6-dinitrotoluene	NA	0.58	J	0.05	0.098	0.11	3		0.053	0.1	0.11	2.5		0.055	0.11	0.12	<	UJ	0.052	0.1	0.11	2.5		0.053	0.1	0.11
2-Nitrotoluene	NA	<	UJ	0.084	0.2	0.21	<	UJ	0.089	0.21	0.22	<	UJ	0.092	0.22	0.23	<	UJ	0.087	0.2	0.21	<	UJ	0.089	0.21	0.22
3-Nitrotoluene	NA	<	UJ	0.19	0.39	0.39	<	UJ	0.2	0.42	0.42	<	UJ	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	UJ	0.2	0.42	0.42
4-Amino-2,6-dinitrotoluene	NA	0.96		0.057	0.12	0.15	2.7	J	0.06	0.13	0.16	4.9	J	0.062	0.13	0.16	<	U	0.059	0.12	0.15	2.7		0.06	0.12	0.16
4-Nitrotoluene	NA	<	UJ	0.098	0.39	0.4	<	UJ	0.1	0.42	0.43	<	UJ	0.11	0.43	0.44	<	UJ	0.1	0.41	0.42	<	UJ	0.1	0.42	0.43
HMX	400	1.2		0.086	0.2	0.21	1.6	J	0.091	0.21	0.22	<	U	0.095	0.22	0.23	<	U	0.089	0.2	0.21	0.73		0.091	0.21	0.22
MNX	NA	<	U	0.15	0.39	2	<	U	0.16	0.42	2.1	<	U	0.17	0.43	2.2	<	U	0.16	0.41	2	<	U	0.16	0.42	2.1
Nitrobenzene	NA	<	U	0.089	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.098	0.22	0.23	<	U	0.093	0.2	0.21	<	U	0.094	0.21	0.22
RDX	2	0.66		0.051	0.2	0.21	2.1		0.054	0.21	0.22	<	U	0.056	0.22	0.23	<	U	0.053	0.2	0.21	0.68	J	0.053	0.21	0.22
Tetryl	NA	<	U	0.031	0.098	0.11	<	U	0.033	0.1	0.11	<	U	0.034	0.11	0.12	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.11
LABORATORY WATER QUALITY PARAMETERS																										
Ammonia USEPA 350.1 (mg/L)		<	U	0.022	0.05	0.1	0.033	J	0.022	0.05	0.1	0.32	J	0.11	0.25	0.5	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	UJ	0.69	1	1	<	U	0.69	1	1	2.4		0.69	1	1	<	UJ	0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		7.9		0.019	0.05	0.1	24		0.48	1.3	2.5	5		0.019	0.05	0.1	36	J	0.19	0.5	1	13		0.095	0.25	0.5
Sulfide SM 9034 (mg/L)		0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		91		1	2.5	5	81		1	2.5	5	53		1	2.5	5	79		1	2.5	5	150		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		3.9		0.35	0.8	1	4.2		0.35	0.8	1	11		0.35	0.8	1	2		0.35	0.8	1	3.5		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		350		3.1	6.4	10	280		3.1	6.4	10	360		3.1	6.4	10	130		3.1	6.4	10	320		3.1	6.4	10
Methane RSK-175 (µg/L)		190	J	0.63	2	5	6500		0.63	2	5	7900		0.63	2	5	<	U	0.63	2	5	0.79	J	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		156		3.1	6.4	10	124		3.1	6.4	10	160		3.1	6.4	10	58		3.1	6.4	10	142		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-2
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY MNA PARAMETERS, OU1 OFF-POST MONITORING WELLS
2021 ANNUAL REPORT

FIELD ID	CHAAP	CA210-21A					CA211-21A					CA212-21A					CA213-21A					NW020-21A					NW021-21A					NW022-21A				
SAMPLE DATE	HALs	5/19/2021					5/19/2021					5/19/2021					5/19/2021					5/25/2021					5/25/2021					5/25/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																																				
1,3,5-Trinitrobenzene	NA	<	U	0.086	0.2	0.21	<	U	0.079	0.19	0.2	<	U	0.082	0.19	0.2	<	U	0.082	0.19	0.2	<	U	0.086	0.2	0.21	<	U	0.087	0.21	0.22	<	U	0.085	0.2	0.21
1,3-Dinitrobenzene	NA	<	U	0.038	0.1	0.11	<	U	0.035	0.094	0.1	<	U	0.036	0.097	0.11	<	U	0.036	0.097	0.11	<	U	0.038	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.037	0.1	0.11
TNT	2	<	U	0.046	0.1	0.11	<	U	0.042	0.094	0.1	<	U	0.044	0.097	0.11	<	U	0.044	0.097	0.11	0.93	J	0.046	0.1	0.11	<	U	0.047	0.1	0.11	<	UJ	0.046	0.1	0.11
2,4-Dinitrotoluene	NA	<	U	0.028	0.082	0.1	<	U	0.026	0.075	0.094	<	U	0.027	0.078	0.097	<	U	0.027	0.078	0.097	<	U	0.028	0.082	0.1	<	U	0.028	0.083	0.1	<	U	0.028	0.081	0.1
2,6-Dinitrotoluene	NA	<	U	0.041	0.082	0.1	<	U	0.038	0.075	0.094	<	U	0.039	0.078	0.097	<	U	0.039	0.078	0.097	<	U	0.041	0.082	0.1	<	U	0.042	0.083	0.1	<	U	0.041	0.081	0.1
2-Amino-4,6-dinitrotoluene	NA	<	U	0.052	0.1	0.11	<	U	0.048	0.094	0.1	<	U	0.049	0.097	0.11	<	U	0.049	0.097	0.11	1.3	J	0.052	0.1	0.11	1.5		0.053	0.1	0.11	<	UJ	0.052	0.1	0.11
2-Nitrotoluene	NA	<	U	0.087	0.2	0.21	<	U	0.081	0.19	0.2	<	U	0.083	0.19	0.2	<	U	0.083	0.19	0.2	<	UJ	0.087	0.2	0.21	<	UJ	0.089	0.21	0.22	<	UJ	0.087	0.2	0.21
3-Nitrotoluene	NA	<	U	0.2	0.41	0.41	<	U	0.18	0.38	0.38	<	U	0.19	0.39	0.39	<	U	0.19	0.39	0.39	<	UJ	0.2	0.41	0.41	<	UJ	0.2	0.42	0.42	<	UJ	0.2	0.41	0.41
4-Amino-2,6-dinitrotoluene	NA	<	U	0.059	0.12	0.15	<	U	0.054	0.11	0.14	<	U	0.056	0.12	0.15	<	U	0.056	0.12	0.15	1.3	J	0.059	0.12	0.15	0.95		0.06	0.12	0.16	<	UJ	0.059	0.12	0.15
4-Nitrotoluene	NA	<	U	0.1	0.41	0.42	<	U	0.094	0.38	0.39	<	U	0.097	0.39	0.4	<	U	0.097	0.39	0.4	<	UJ	0.1	0.41	0.42	<	UJ	0.1	0.42	0.43	<	UJ	0.1	0.41	0.42
HMX	400	<	U	0.089	0.41	2	<	U	0.083	0.19	0.2	<	U	0.085	0.19	0.2	<	U	0.085	0.19	0.2	1.4	J	0.09	0.2	0.21	<	U	0.091	0.21	0.22	<	UJ	0.089	0.2	0.21
MNX	NA	<	U	0.16	0.41	2	<	U	0.15	0.38	1.9	<	U	0.15	0.39	1.9	<	U	0.15	0.39	1.9	<	U	0.16	0.41	2	<	U	0.16	0.42	2.1	<	U	0.16	0.41	2
Nitrobenzene	NA	<	U	0.093	0.2	0.21	<	U	0.086	0.19	0.2	<	U	0.088	0.19	0.2	<	U	0.089	0.19	0.2	<	U	0.093	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.092	0.2	0.21
RDX	2	<	U	0.052	0.2	0.21	<	U	0.049	0.19	0.2	<	U	0.05	0.19	0.2	<	U	0.05	0.19	0.2	1		0.053	0.2	0.21	0.13	J	0.053	0.21	0.22	<	U	0.052	0.2	0.21
Tetryl	NA	<	U	0.032	0.1	0.11	<	U	0.03	0.094	0.1	<	U	0.031	0.097	0.11	<	U	0.031	0.097	0.11	<	U	0.033	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.032	0.1	0.11
LABORATORY MNA PARAMETERS																																				
Ammonia USEPA 350.1 (mg/L)		0.14		0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	UJ	0.022	0.05	0.1	1.5		0.022	0.05	0.1	1.4	J	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	1.7		0.69	1	1	1.4		0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		41		0.19	0.5	1	32		0.095	0.25	0.5	14		0.038	0.1	0.2	1.5		0.019	0.05	0.1	59	J	0.48	1.3	2.5	0.87		0.019	0.05	0.1	<	UJ	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)		<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		190		1	2.5	5	89		1	2.5	5	68		1	2.5	5	60		1	2.5	5	240		5.2	13	25	200		5.2	13	25	250		5.2	13	25
Dissolved Organic Carbon SM 9060A (mg/L)		9.5		0.35	0.8	1	4.7		0.35	0.8	1	2.4		0.35	0.8	1	2		0.35	0.8	1	6.9	J	0.35	0.8	1	3.3		0.35	0.8	1	3.4	J	0.35	0.8	1
Alkalinity SM 2320B (mg/L)		390		3.1	6.4	10	180		3.1	6.4	10	170		3.1	6.4	10	130		3.1	6.4	10	350		3.1	6.4	10	340		3.1	6.4	10	430		3.1	6.4	10
Methane RSK-175 (µg/L)		2.7		0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	UJ	0.63	2	5	34		0.63	2	5	430	J	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		173.3		3.1	6.4	10	80		3.1	6.4	10	75.56		3.1	6.4	10	57.78		3.1	6.4	10	156		3.1	6.4	10	151		3.1	6.4	10	191		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.
< = less than LOQ
µg/L = micrograms per liter
CHAAP = Cornhusker Army Ammunition Plant
DL = detection limit
HAL = health advisory level
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MNA = monitored natural attenuation
MNX = mono-nitroso-RDX
NA = not available
OU = Operable Unit
PZ = piezometer
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
TNT = 2,4,6-trinitrotoluene
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE 5-2
SUMMARY OF EXPLOSIVES DETECTED AND LABORATORY MNA PARAMETERS, OU1 OFF-POST MONITORING WELLS
2021 ANNUAL REPORT

FIELD ID	CHAAP	NW060-21A					NW061-21A					NW062-21A					NW070-21A					NW071-21A				
SAMPLE DATE	HALs	5/19/2021					5/19/2021					5/19/2021					5/19/2021					5/19/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (USEPA Method 8330A) (µg/L)																										
1,3,5-Trinitrobenzene	NA	<	U	0.083	0.2	0.21	<	U	0.082	0.19	0.2	<	U	0.08	0.19	0.2	<	U	0.08	0.19	0.2	<	U	0.08	0.19	0.2
1,3-Dinitrobenzene	NA	<	U	0.036	0.099	0.11	<	U	0.036	0.097	0.11	<	U	0.035	0.095	0.1	<	U	0.035	0.095	0.11	<	U	0.035	0.095	0.1
TNT	2	<	U	0.045	0.099	0.11	<	U	0.044	0.097	0.11	<	U	0.043	0.095	0.1	<	U	0.043	0.095	0.11	<	U	0.043	0.095	0.1
2,4-Dinitrotoluene	NA	<	U	0.027	0.079	0.099	<	U	0.027	0.078	0.097	<	U	0.026	0.076	0.095	<	U	0.026	0.076	0.095	<	U	0.026	0.076	0.095
2,6-Dinitrotoluene	NA	<	U	0.04	0.079	0.099	<	U	0.039	0.078	0.097	<	U	0.038	0.076	0.095	<	U	0.038	0.076	0.095	<	U	0.038	0.076	0.095
2-Amino-4,6-dinitrotoluene	NA	<	U	0.05	0.099	0.11	<	U	0.049	0.097	0.11	<	U	0.048	0.095	0.1	<	U	0.048	0.095	0.11	<	U	0.048	0.095	0.1
2-Nitrotoluene	NA	<	U	0.085	0.2	0.21	<	U	0.083	0.19	0.2	<	UJ	0.081	0.19	0.2	<	U	0.082	0.19	0.2	<	U	0.082	0.19	0.2
3-Nitrotoluene	NA	<	U	0.19	0.4	0.4	<	U	0.19	0.39	0.39	<	UJ	0.19	0.38	0.38	<	U	0.19	0.38	0.38	<	U	0.19	0.38	0.38
4-Amino-2,6-dinitrotoluene	NA	<	U	0.057	0.12	0.15	<	U	0.056	0.12	0.15	<	U	0.055	0.11	0.14	<	U	0.055	0.11	0.14	<	U	0.055	0.11	0.14
4-Nitrotoluene	NA	<	U	0.099	0.4	0.41	<	U	0.097	0.39	0.4	<	U	0.095	0.38	0.39	<	U	0.095	0.38	0.39	<	U	0.095	0.38	0.39
HMX	400	<	U	0.087	0.2	0.21	<	U	0.085	0.19	0.2	<	U	0.083	0.19	0.2	<	U	0.084	0.19	0.2	<	U	0.084	0.19	0.2
MNX	NA	<	U	0.15	0.4	2	<	U	0.15	0.39	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9	<	U	0.15	0.38	1.9
Nitrobenzene	NA	<	U	0.09	0.2	0.21	<	U	0.088	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.087	0.19	0.2	<	U	0.087	0.19	0.2
RDX	2	<	U	0.051	0.2	0.21	<	U	0.05	0.19	0.2	<	U	0.049	0.19	0.2	<	U	0.049	0.19	0.2	<	U	0.049	0.19	0.2
Tetryl	NA	<	U	0.031	0.099	0.11	<	U	0.031	0.097	0.11	<	U	0.03	0.095	0.1	<	U	0.03	0.095	0.11	<	U	0.03	0.095	0.1
LABORATORY MNA PARAMETERS																										
Ammonia USEPA 350.1 (mg/L)		<	U	0.022	0.05	0.1	2.4		0.022	0.05	0.1	1		0.022	0.05	0.1	0.034	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	U	0.69	1	1	1.8		0.69	1	1	<	U	0.69	1	1	2		0.69	1	1	<	U	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)		2.4		0.019	0.05	0.1	9.8		0.019	0.05	0.1	0.053	J	0.019	0.05	0.1	0.031	J	0.019	0.05	0.1	32		0.19	0.5	1
Sulfide SM 9034 (mg/L)		<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)		9.4	J	2.1	5	10	150		1	2.5	5	190		2.1	5	10	18		1	2.5	5	63		1	2.5	5
Dissolved Organic Carbon SM 9060A (mg/L)		2.6		0.35	0.8	1	4.7		0.35	0.8	1	2.9		0.35	0.8	1	15		0.35	0.8	1	3.2		0.35	0.8	1
Alkalinity SM 2320B (mg/L)		36		3.1	6.4	10	290		3.1	6.4	10	270		3.1	6.4	10	120		3.1	6.4	10	110		3.1	6.4	10
Methane RSK-175 (µg/L)		<	U	0.63	2	5	28		0.63	2	5	7.6		0.63	2	5	7.5		0.63	2	5	<	U	0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]		16		3.1	6.4	10	128.9		3.1	6.4	10	120		3.1	6.4	10	53.33		3.1	6.4	10	49		3.1	6.4	10

Notes:

Concentrations exceed HALs

[1]Carbon dioxide back calculated from alkalinity SM 2320B.

< = less than LOQ

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

DL = detection limit

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MNA = monitored natural attenuation

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

PZ = piezometer

Qual = qualifier

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

RSK = Robert S. Kerr Environmental Research Laboratory

SM = Standard Method

TNT = 2,4,6-trinitrotoluene

U = nondetect

USEPA = United States Environmental Protection Agency

TABLE 5-3
FREQUENCY OF DETECTIONS AND CONCENTRATION RANGES FOR EXPLOSIVES AT OU1
2021 ANNUAL REPORT

Compound Detected	CHAAP HALs	Detections above HALs	Frequency of Detects[1]	Concentration Range (µg/L)
On-Post Wells				
1,3,5-Trinitrobenzene	NA	-	13/75	0.18 to 14
1,3-Dinitrobenzene	NA	-	1/75	1.7
TNT	2	9	17/75	0.38 to 19
2,4-Dinitrotoluene	NA	-	4 / 75	0.053 to 0.44
2,6-Dinitrotoluene	NA	-	2/75	0.36 to 7.4
2-Amino-4,6-dinitrotoluene	NA	-	26 / 75	0.066 to 35
4-Amino-2,6-dinitrotoluene	NA	-	25 / 75	0.17 to 39
HMX	400	0	21 / 75	0.21 to 39
MNX	NA	-	2 / 75	0.98 to 4.1
Nitrobenzene	NA	-	3 / 75	0.52 to 15
RDX	2	8	21 / 75	0.23 to 97
Off-Post Wells				
TNT	2	0	1 / 12	0.93
2-Amino-4,6-dinitrotoluene	NA	-	2 / 12	1.3 to 1.5
4-Amino-2,6-dinitrotoluene	NA	-	2 / 12	0.95 to 1.3
HMX	400	0	1 / 12	1.4
RDX	2	0	2 / 12	0.13 to 1

Notes:

[1]Includes 75 on-post monitoring wells and piezometers, and 12 off-post monitoring wells. Field quality control samples (field duplicates, matrix spike/matrix spike duplicates) and GWTF samples are not included.

µg/L = micrograms per liter

CHAAP = Cornhusker Army Ammunition Plant

GWTF = groundwater treatment facility

HAL = health advisory level

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

MNX = mono-nitroso-RDX

NA = not available

OU = Operable Unit

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene

TABLE 5-4
HIGHEST HISTORICAL OU1 OFF-POST EXPLOSIVES PLUME CONCENTRATIONS
2021 ANNUAL REPORT

	Highest Off-Post Concentrations									
Compound Detected (µg/L)	**May 2021**	**Jun 2020**	**Jun 2019**	**Mar 2018**	**Mar 2017**	**Aug 2016**	**Aug 2015**	**Aug 2014**	**Mar 2013**	**Mar 2012**
RDX	1.0	1.5	0.17	0.85	0.76	0.89	1.6	1.6	2.1	2.2
TNT	0.93	0.59	0.33	0.34	0.33	0.36	0.29	0.41	0.7	0.88
HMX	1.40	ND	0.27	0.79	1.1	0.52	0.85	0.79	1.7	2
1,3,5-Trinitrobenzene	ND	ND	ND	0.22	0.25	ND	ND	0.32	0.5	0.38
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Amino-4,6-dinitrotoluene	1.5	2.2	2.4	3.3	3.9	4.3	2.3	5.5	6.5	5.9
4-Amino-2,6-dinitrotoluene	1.3	1.8	1.8	1.5	2.1	2.0	0.85	3.7	3.6	3

Notes:

* Concentrations measured in feed lot well clusters (installed May 1998 and December 1999) were often higher than other off-post locations and are shown in parentheses. All feedlot wells (10 total) were abandoned in 2013.

µg/L = micrograms per liter

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

NA = not analyzed

ND = not detected

OU = Operable Unit

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene

TABLE 5-4
HIGHEST HISTORICAL OU1 OFF-POST EXPLOSIVES PLUME CONCENTRATIONS
2021 ANNUAL REPORT

	Highest Off-Post Concentrations									
Compound Detected (µg/L)	**Mar 2011**	**Mar 2010**	**Mar 2009**	**Mar 2008**	**Mar 2007**	**Mar 2006**	**Mar 2005**	**Mar 2004**	**Mar 2003**	**Mar 2002**
RDX	2.4	2.5	4.2	4.9	6.6	8.4	8.3	11	9.4	11 (19)*
TNT	1.1	1.7	3.1	4.1	3.3	5	5.8	6.8	11	13
HMX	2.2 (2.9)*	2.7	3.3 (4.7)*	3.2	3.4	3.8	3.6	4.1	4.3	4.8 (8.4)*
1,3,5-Trinitrobenzene	0.37	0.28	ND	0.74	1	1.1	0.86	1.4	ND	1.2
2,4-Dinitrotoluene	ND	ND (0.19)*	ND	ND	ND	ND (0.67)*	ND (0.85)*	0.17 (1.4)*	ND (1.9)*	ND (2.9)*
2-Amino-4,6-dinitrotoluene	7.3	8.9	7.6	9.3	9.5 (12)*	9.4 (14)*	3.8 (18)*	4.6 (28)*	2.6 (35)*	4.5 (49)*
4-Amino-2,6-dinitrotoluene	3.2 (5.9)*	3.4 (4.9)*	4.2 (7.5)*	6.2	4.6 (6.6)*	6.4 (8.8)*	3.5 (11)*	3.6 (15)*	3.0 (21)*	3.1 (35)*

Notes:

* Concentrations measured in feed lot well clusters (installed May 1998 and December 1999) were often higher than other off-post locations and are shown in parentheses. All feedlot wells (10 total) were abandoned in 2013.

µg/L = micrograms per liter

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

NA = not analyzed

ND = not detected

OU = Operable Unit

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene

TABLE 5-4
HIGHEST HISTORICAL OU1 OFF-POST EXPLOSIVES PLUME CONCENTRATIONS
2021 ANNUAL REPORT

	Highest Off-Post Concentrations							
Compound Detected (µg/L)	**Mar 2001**	**Mar 2000**	**Mar 1999**	**Jun 1998**	**Oct 1997**	**Dec 1996**	**Jul 1994**	**Dec 1984**
RDX	8.3 (12)*	12 (16)*	12.4 (12.0)*	10.7 (13.5)*	11.3	13.6	28	>100
TNT	19 (24)*	25 (17)*	34.9	22.3	22.8	30	23	>350
HMX	4.1 (5.8)*	4.8 (6.6)*	3.8 (5.9)*	4.3 (14.8)*	4.07	4.9	9.54	NA
1,3,5-Trinitrobenzene	0.63	0.77	0.793	ND	1.24	1.2	1.54	NA
2,4-Dinitrotoluene	ND (3.6)*	ND (2.8)*	ND (2.4)*	3.78	0.753	0.78	0.311	NA
2-Amino-4,6-dinitrotoluene	5.5 (65)*	8.9 (56)*	9.15 (42)*	8.0 (53.4)*	10.4	13	12	NA
4-Amino-2,6-dinitrotoluene	4.2 (45)*	6.4 (42)*	6.26 (33)*	5.9 (49.4)*	7.15	10.8	NA	NA

Notes:

* Concentrations measured in feed lot well clusters (installed May 1998 and December 1999) were often higher than other off-post locations and are shown in parentheses. All feedlot wells (10 total) were abandoned in 2013.

µg/L = micrograms per liter

HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

NA = not analyzed

ND = not detected

OU = Operable Unit

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene

TABLE 5-5
SUMMARY OF VOCs AND TPH-DRO DETECTED AND LABORATORY MNA PARAMETERS, OU3 SHOP AREA MONITORING WELLS 2021 ANNUAL REPORT

FIELD ID		SHGW02-21A					SHGW03-21A				
SAMPLE DATE	MCLs[1]	5/26/2021					5/26/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
VOLATILE ORGANIC COMPOUNDS (USEPA Method 8260B) (µg/L)											
1,1,1-Trichloroethane	200	<	U	0.16	0.4	1	<	U	0.16	0.4	1
1,1,2,2-Tetrachloroethane	NA	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon® 113)	NA	<	U	0.18	0.4	3	<	U	0.18	0.4	3
1,1,2-Trichloroethane	5	<	U	0.27	0.8	1	11		0.27	0.8	1
1,1-Dichloroethane	NA	<	U	0.22	0.8	1	<	U	0.22	0.8	1
1,1-Dichloroethene	7	<	U	0.23	0.8	1	<	U	0.23	0.8	1
1,2,3-Trichlorobenzene	NA	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,2,4-Trichlorobenzene	70	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,2-Dibromo-3-Chloropropane	0.2	<	U	0.47	1.6	5	<	U	0.47	1.6	5
1,2-Dibromoethane	0.05	<	U	0.18	0.4	1	<	U	0.18	0.4	1
1,2-Dichlorobenzene	600	<	U	0.15	0.4	1	<	U	0.15	0.4	1
1,2-Dichloroethane	5	<	U	0.13	0.4	1	<	U	0.13	0.4	1
1,2-Dichloropropane	5	<	U	0.18	0.4	1	<	U	0.18	0.4	1
1,3-Dichlorobenzene	NA	<	U	0.13	0.4	1	<	U	0.13	0.4	1
1,4-Dichlorobenzene	75	<	U	0.16	0.4	1	<	U	0.16	0.4	1
2-Butanone (MEK)	NA	15		2	0.4	1	<	U	2	0.4	1
2-Hexanone	NA	55		1.7	4	6	<	U	1.7	4	6
4-Methyl-2-Pentanone (MIBK)	NA	<	U	0.98	4	5	<	U	0.98	4	5
Acetone	NA	9.1	J	1.9	3.2	5	<	U	1.9	3.2	5
Benzene	5	<	U	0.16	6.4	10	<	U	0.16	6.4	10
Bromochloromethane	NA	<	U	0.1	0.4	1	<	U	0.1	0.4	1
Bromodichloromethane	80	<	U	0.17	0.2	1	<	U	0.17	0.2	1
Bromoform	80	<	U	0.46	0.4	1	<	U	0.46	0.4	1
Bromomethane	NA	<	U	0.21	1	1	<	U	0.21	1	1
Carbon Disulfide	NA	<	U	0.17	0.8	2	<	U	0.17	0.8	2
Carbon Tetrachloride	5	<	U	0.19	0.8	2	<	U	0.19	0.8	2

Notes:

Concentrations exceed MCLs

[1]TPH-DRO is screened against Nebraska PAL (Nebraska Department of Environmental Quality 2009).

< = less than LOQ
µg/L = micrograms per liter
DL = detection limit
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MCL = maximum contaminant level
MNA = monitored natural attenuation
NA = not available
NS = not sampled
OU = Operable Unit
PAL = project action limit
Qual = qualifier
RSK = Robert S. Kerr Environmental Research Laboratory
TPH-DRO = total petroleum hydrocarbon-diesel range organic
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compounds

TABLE 5-5
SUMMARY OF VOCs AND TPH-DRO DETECTED AND LABORATORY MNA PARAMETERS, OU3 SHOP AREA MONITORING WELLS 2021 ANNUAL REPORT

FIELD ID		SHGW02-21A					SHGW03-21A				
SAMPLE DATE	MCLs[1]	5/26/2021					5/26/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
Chlorobenzene	100	<	U	0.17	0.4	2	<	U	0.17	0.4	2
Chloroethane	NA	<	U	0.41	0.4	1	<	U	0.41	0.4	1
Chloroform	80	<	U	0.16	1.6	2	<	U	0.16	1.6	2
Chloromethane	NA	<	U	0.3	0.4	1	<	U	0.3	0.4	1
Cis-1,2-Dichloroethene	70	<	U	0.15	0.8	2	<	U	0.15	0.8	2
Cis-1,3-Dichloropropene	NA	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Cyclohexane	NA	<	U	0.28	0.4	1	<	U	0.28	0.4	1
Dibromochloromethane	80	<	U	0.17	0.8	2	<	U	0.17	0.8	2
Dichlorodifluoromethane	NA	<	U	0.31	0.4	1	<	U	0.31	0.4	1
Ethyl Benzene	700	<	U	0.16	0.8	2	<	U	0.16	0.8	2
Isopropylbenzene	NA	<	U	0.19	0.4	1	<	U	0.19	0.4	1
Methyl Acetate	NA	<	U	1.6	4	5	<	U	1.6	4	5
Methyl Cyclohexane	NA	<	U	0.1	0.8	5	<	U	0.1	0.8	5
Methyl Tert-Butyl Ether (Mtbe)	NA	<	U	0.25	0.4	2	<	U	0.25	0.4	2
Methylene Chloride	5	<	U	0.94	2	5	<	U	0.94	2	5
Styrene	100	<	U	0.36	0.8	1	<	U	0.36	0.8	1
Tetrachloroethylene (Pce)	5	<	U	0.2	0.4	1	<	U	0.2	0.4	1
Toluene	1000	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Xylenes, Total	10000	<	U	0.19	0.2	1.5	<	U	0.19	0.2	1.5
Trans-1,2-Dichloroethene	100	<	U	0.15	0.8	1	<	U	0.15	0.8	1
Trans-1,3-Dichloropropene	NA	<	U	0.19	0.4	1	<	U	0.19	0.4	1
Trichloroethene	5	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Trichlorofluoromethane	NA	<	U	0.29	0.4	1	<	U	0.29	0.4	1
Vinyl Chloride	2	<	U	0.1	0.8	2	<	U	0.1	0.8	2
TOTAL PETROLEUM HYDROCARBONS (SM Method 8015B) (mg/L)											
Diesel Range Organics	10	NS					0.18	J	0.031	0.12	0.24

Notes:

Concentrations exceed MCLs

[1]TPH-DRO is screened against Nebraska PAL (Nebraska Department of Environmental Quality 2009).

< = less than LOQ
µg/L = micrograms per liter
DL = detection limit
ID = identification number
J = estimated
LOD = limit of detection
LOQ = limit of quantification
mg/L = milligrams per liter
MCL = maximum contaminant level
MNA = monitored natural attenuation
NA = not available
NS = not sampled
OU = Operable Unit
PAL = project action limit
Qual = qualifier
RSK = Robert S. Kerr Environmental Research Laboratory
TPH-DRO = total petroleum hydrocarbon-diesel range organic
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compounds

TABLE 5-5
SUMMARY OF VOCs AND TPH-DRO DETECTED AND LABORATORY MNA PARAMETERS, OU3 SHOP AREA MONITORING WELLS 2021 ANNUAL REPORT

FIELD ID		SHGW02-21A					SHGW03-21A				
SAMPLE DATE	MCLs[1]	5/26/2021					5/26/2021				
	(µg/L)	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
LABORATORY MNA PARAMETERS											
Methane RSK-175 (µg/L)		6100		0.63	2	5	51		0.63	2	5
Ethane RSK-175 (µg/L)		<	U	0.57	1.5	5	<	U	0.57	1.5	5
Ethene RSK-175 (µg/L)		<	U	0.4	1.4	5	<	U	0.4	1.4	5
Nitrate/Nitrite USEPA 353.2 (mg/L)		0.17		0.019	0.05	0.1	7.5		0.019	0.05	0.1
Alkalinity SM 2320B (mg/L)		200		3.1	6.4	10	160		3.1	6.4	10
Sulfate USEPA 9056A (mg/L)		26	J	1.5	4.5	5	31		1.5	4.5	5

Notes:

Concentrations exceed MCLs

[1]TPH-DRO is screened against Nebraska PAL (Nebraska Department of Environmental Quality 2009).

< = less than LOQ

µg/L = micrograms per liter

DL = detection limit

ID = identification number

J = estimated

LOD = limit of detection

LOQ = limit of quantification

mg/L = milligrams per liter

MCL = maximum contaminant level

MNA = monitored natural attenuation

NA = not available

NS = not sampled

OU = Operable Unit

PAL = project action limit

Qual = qualifier

RSK = Robert S. Kerr Environmental Research Laboratory

TPH-DRO = total petroleum hydrocarbon-diesel range organic

U = nondetect

USEPA = United States Environmental Protection Agency

VOC = volatile organic compounds

TABLE 5-6
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS OUTSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	ORP (mV)							DO (mg/L)							Nitrate/Nitrite (mg/L)							Ammonia (mg/L)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells																												
G0024	197.9	132.8	119.0	56.8	101.8	119.0	221.4	6.16	9.01	4.70	6.15	8.09	7.26	5.07	17	21	39	55	8.8	26	7.8	ND	ND	ND	ND	ND	ND	ND
G0044	3.5	-182.6	70.7	98.5	207.8	196.0	202.0	4.33	3.59	4.45	2.89	2.36	5.79	6.25	2.7	1.8	3.0	5.9	9.4	2.60	8.9	ND	ND	ND	ND	ND	ND	ND
G0067	162.7	82.9	73.1	142.4	101.6	90.0	178.5	4.77	5.53	6.27	6.09	7.19	5.33	4.63	9.3	11	12	15	22	12	15	ND	ND	0.033	ND	ND	ND	ND
G0091	197.0	93.8	134.7	59.9	168.8	105.0	94.3	5.06	5.57	4.79	2.77	2.11	6.55	4.74	37	48	49	45	35	40	38	ND	ND	ND	ND	ND	ND	ND
PZ005	20.4	53.1	-50.1	-2.7	208.0	91.0	67.7	3.28	1.68	2.68	0.80	0.25	4.83	1.64	1.4	2.7	1.4	6.0	0.44	11	8.5	0.023	ND	ND	ND	0.05	0.024	ND
PZ007	-23.2	2.3	-6.1	180.5	52.7	70.0	-16.5	3.28	2.22	3.25	1.31	1.89	4.56	3.73	0.54	0.66	0.42	ND	0.099	0.96	0.80	0.033	0.028	0.047	0.11	0.077	0.042	0.04
PZ009	10.8	25.6	-7.5	130.9	81.1	98.0	123.4	3.33	1.07	2.46	0.72	2.18	0.17	0.99	1.8	0.43	0.80	3.6	4.2	5.8	8.1	ND	0.039	ND	ND	ND	0.035	ND
PZ019	169.3	171.9	136.8	141.8	287.2	112.0	145.8	7.60	9.18	7.19	7.54	9.76	10.83	8.36	93	74	48	43	40	34	36	ND	ND	ND	ND	ND	ND	ND
PZ020	203.1	64.4	81.1	21.7	68.6	104.0	92.8	2.80	4.34	2.86	1.73	3.65	7.07	2.77	18	35	28	29	42	38	13	ND	ND	ND	ND	ND	0.032	ND
Shallow-Intermediate Wells																												
G0077	187.5	104.7	102.3	48.3	73.2	115.0	165.7	1.19	1.10	1.53	2.30	3.63	2.67	1.55	18	19	25	32	31	13	9.0	0.048	ND	ND	ND	ND	0.052	ND
G0086	119.4	35.8	79.6	133.2	49.7	111.0	186.9	0.30	0.30	0.23	0.27	0.24	1.14	0.13	4.2	3.8	2.9	5.40	3.4	6.5	5.4	0.041	ND	ND	ND	0.029	0.025	ND
G0087	106.3	86.8	136.4	90.4	37.2	111.0	121.2	0.35	0.63	0.87	0.08	0.21	0.40	0.25	1.5	0.32	1.6	0.98	0.22	2.7	8.2	ND	ND	ND	ND	ND	0.032	ND
G0092	170.4	105.8	117.7	66.2	102.3	103.0	15.0	0.55	2.15	0.50	0.25	0.31	0.41	0.06	1.0	2.7	2.8	2.4	ND	0.18	ND	ND	ND	ND	ND	ND	0.031	ND
Intermediate Wells																												
G0078	-9.6	-21.4	99.4	11.7	25.8	68.0	-21.5	0.23	0.29	0.42	0.12	0.29	0.31	0.08	ND	ND	ND	ND	ND	ND	ND	0.10	ND	0.07	ND	0.44	0.46	0.29
Deep Wells																												
G0070	12.3	30.0	138.1	70.2	114.4	120.0	176.3	0.25	1.48	0.48	0.42	2.76	1.40	5.09	ND	ND	ND	ND	ND	ND	ND	0.065	0.027	0.057	0.027	0.043	0.039	ND

Notes:
Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = total Kjeldahl nitrogen

TABLE 5-6
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS OUTSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	TKN (mg/L)							DOC (mg/L)							Carbon Dioxide (mg/L)							Methane (µg/L)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells																												
G0024	ND	ND	ND	ND	ND	ND	ND	6.2	5.4	7.5	8.2	3.5	5.5	3.3	93	67	151	151	124	129	98	ND	ND	ND	ND	ND	ND	ND
G0044	ND	0.19	ND	ND	ND	ND	ND	3.5	3.4	4.5	20	5.1	2.5	4.9	200	173	222	222	231	191	218	ND	ND	ND	ND	ND	ND	ND
G0067	ND	ND	ND	ND	ND	ND	ND	3.2	2.8	3.2	2.9	3.3	2.5	3.0	84	102	102	102	89	98	111	ND	0.91	ND	0.33	ND	1.4	ND
G0091	ND	ND	ND	ND	ND	ND	ND	3.0	3.4	3.5	3.6	3.2	3.8	3.1	120	138	142	142	147	124	120	ND	ND	ND	ND	ND	ND	ND
PZ005	0.47	ND	ND	ND	ND	0.81	ND	7.1	6.8	5.1	7.3	5.5	8.9	7.7	236	253	249	249	262	276	280	ND	ND	0.40	9.1	0.88	ND	ND
PZ007	0.57	0.39	ND	ND	ND	0.71	ND	3.4	3.5	3.3	5.3	4.7	3.1	3.2	173	178	182	182	196	182	173	ND	0.41	0.51	1.1	0.70	ND	ND
PZ009	ND	ND	ND	ND	ND	ND	ND	2.9	4.1	4.5	4.8	4.8	5.8	5.8	191	209	227	227	218	222	231	0.71	2.1	0.42	ND	ND	ND	ND
PZ019	ND	ND	ND	ND	ND	ND	ND	1.7	2.2	2.5	2.1	2.0	2.0	2.0	23	19	28	28	27	33	58	ND	ND	ND	ND	ND	ND	ND
PZ020	ND	ND	ND	ND	ND	ND	ND	3.5	4.8	4.0	3.5	4.5	6.4	3.5	129	138	133	133	138	138	142	4.6	0.52	1.3	ND	ND	ND	0.79
Shallow-Intermediate Wells																												
G0077	ND	ND	ND	ND	ND	ND	ND	4.0	3.8	4.1	4.8	5.1	3.6	4.4	129	133	142	142	147	116	138	29	120	8.1	7.7	ND	ND	530
G0086	ND	ND	ND	ND	ND	ND	ND	2.4	2.4	2.4	2.6	2.5	3.6	3.0	102	107	111	111	107	124	138	390	180	220	9.5	72	22	14
G0087	1.40	0.29	ND	ND	ND	1.1	ND	2.7	2.5	2.5	2.7	2.6	2.9	2.8	93	93	107	107	107	138	129	2.5	17	3.70	0.92	ND	ND	ND
G0092	ND	ND	ND	ND	ND	ND	ND	2.3	2.7	2.7	2.7	2.6	2.9	2.7	147	156	151	151	151	156	160	1.2	0.96	1.0	9.3	0.95	18	3.60
Intermediate Wells																												
G0078	ND	1.7	ND	1.7	ND	ND	0.7	2.4	2.5	2.5	2.5	2.9	3.8	2.9	151	151	151	151	160	178	142	150	170	150	170	280	130	130
Deep Wells																												
G0070	ND	ND	ND	ND	ND	ND	ND	0.97	1.0	1.3	1.0	0.86	1.0	1.1	89	89	89	89	93	89	98	0.61	0.69	0.61	0.69	ND	ND	ND

Notes:
Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = total Kjeldahl nitrogen

TABLE 5-6
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS OUTSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	Alkalinity (mg/L)							Ferrous Iron (mg/L)							Sulfate (mg/L)							Sulfide (mg/L)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells																												
G0024	210	150	340	280	67	290	220	0.02	0.07	0.04	0.38	0.02	1.26	0.04	100	97	190	190	14	150	54	ND	ND	ND	ND	ND	ND	ND
G0044	450	390	500	520	590	430	490	0.04	0.28	ND	0.44	ND	0.08	ND	270	300	600	570	650	170	700	ND	ND	0.8	ND	ND	ND	2.4
G0067	190	230	230	200	180	220	250	0.76	0.02	0.18	ND	ND	0.49	ND	76	76	72	80	65	110	120	0.8	ND	ND	17	ND	ND	0.8
G0091	270	310	320	330	360	280	270	ND	NS	ND	ND	0.04	0.28	0.02	110	130	150	180	220	190	200	ND	ND	ND	0.8	ND	ND	0.8
PZ005	530	570	560	590	470	620	280	0.17	0.64	0.28	0.96	ND	0.13	0.36	710	1100	880	1200	1300	1400	1400	ND	ND	ND	ND	ND	ND	0.8
PZ007	390	400	410	440	430	410	390	0.84	0.46	1.04	2.17	1.72	0.90	0.45	570	680	480	1200	930	580	510	ND	ND	ND	0.8	ND	ND	ND
PZ009	430	470	510	490	500	500	520	0.45	0.11	0.2	1.29	0.05	0.06	0.54	260	350	370	460	530	620	740	ND	ND	ND	ND	ND	ND	ND
PZ019	51	43	64	61	83	75	130	ND	ND	0.03	0.27	0.27	0.23	0.05	29	46	53	61	63	58	79	ND	ND	0.8	ND	ND	ND	0.8
PZ020	290	310	300	310	290	310	320	ND	0.09	ND	0.40	0.11	0.91	ND	100	150	130	101	1770	190	150	ND	ND	ND	ND	ND	ND	0.8
Shallow-Intermediate Wells																												
G0077	290	300	320	330	260	260	310	0.05	ND	0.04	0.24	0.04	1.28	ND	100	110	130	150	280	99	140	ND	ND	ND	ND	ND	0.8	0.8
G0086	230	240	250	240	290	280	310	0.01	ND	ND	0.07	ND	0.16	0.02	110	130	130	140	160	130	180	ND	ND	ND	ND	ND	ND	ND
G0087	210	210	240	240	280	310	290	0.07	0.10	0.32	0.09	ND	0.16	ND	64	56	75	94	120	110	110	ND	ND	ND	ND	0.8	ND	0.8
G0092	330	350	340	340	380	350	360	0.04	0.02	0.10	ND	0.22	0.22	0.12	260	270	260	270	320	330	350	ND	ND	ND	ND	ND	ND	0.8
Intermediate Wells																												
G0078	340	340	340	360	400	340	320	0.46	0.62	0.43	0.83	0.53	1.11	1.09	270	260	270	260	250	250	270	ND	ND	ND	ND	ND	ND	0.8
Deep Wells																												
G0070	200	200	200	210	220	200	220	0.41	ND	0.11	ND	1.18	0.32	ND	35	33	32	37	190	39	44	ND	ND	ND	ND	ND	ND	ND

Notes:
Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = total Kjeldahl nitrogen

TABLE 5-6
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS OUTSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	pH							Specific Conductance (mS/cm)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells														
G0024	6.92	6.68	6.87	6.19	6.42	6.71	6.74	0.953	0.576	1.201	0.949	0.226	1.170	0.613
G0044	7.03	6.99	6.95	6.78	6.90	6.63	7.11	1.486	0.903	2.281	1.712	2.194	1.160	2.193
G0067	5.82	6.34	6.50	6.13	6.39	6.78	6.38	0.660	0.484	0.687	0.547	0.676	0.694	0.781
G0091	6.71	6.85	6.84	6.91	6.92	7.29	6.92	1.109	1.017	1.143	1.206	1.362	1.300	1.195
PZ005	6.89	6.78	6.88	6.91	6.97	7.20	7.02	2.359	2.085	2.575	3.125	2.692	3.250	3.630
PZ007	7.15	7.19	6.94	7.13	6.83	7.03	7.15	1.911	1.859	1.539	2.237	2.419	1.940	1.640
PZ009	7.09	6.89	7.01	7.14	6.69	5.84	7.05	1.284	1.143	1.663	1.570	1.809	2.000	2.140
PZ019	6.41	6.15	6.17	5.95	5.92	6.49	6.39	1.003	0.667	0.596	0.402	0.502	0.616	0.709
PZ020	6.51	6.82	6.79	6.58	6.73	6.86	6.91	0.964	0.807	0.947	0.796	1.047	1.350	1.003
Shallow-Intermediate Wells														
G0077	6.88	6.76	6.83	6.53	6.75	6.68	6.87	1.006	0.819	0.990	0.815	0.835	0.874	0.881
G0086	6.93	6.74	6.79	6.43	6.77	7.03	6.67	0.782	0.594	0.716	0.585	0.742	0.923	0.966
G0087	6.87	6.76	6.62	6.44	6.74	7.03	6.62	0.612	0.448	0.605	0.551	0.655	0.851	0.774
G0092	7.42	7.25	7.23	7.24	7.22	7.54	7.23	1.194	0.899	1.052	1.143	1.289	1.240	1.051
Intermediate Wells														
G0078	7.25	7.12	6.98	6.80	7.10	6.91	6.95	1.207	0.958	1.096	0.878	1.065	1.280	1.118
Deep Wells														
G0070	7.14	7.15	7.04	7.01	6.78	7.01	7.09	0.490	0.390	0.422	0.354	0.374	0.511	0.451

Notes:
Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = total Kjeldahl nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	ORP (mV)								DO (mg/L)								Nitrate/Nitrite (mg/L)								Ammonia (mg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Areas																																
G0017	**102.0**	-311.4	-293.4	-338.5	-309.2	-332.2	-335.0	-328.6	**1.64**	0.65	0.69	1.77	0.34	0.76	0.38	0.01	**0.98**	ND	0.23	ND	ND	ND	ND	ND	**0.06**	0.088	0.14	0.18	0.13	ND	0.12	ND
G0022	**124.0**	113.3	109.5	157.3	141.4	67.6	64.0	18.2	**3.88**	0.49	0.46	0.40	0.73	1.79	2.07	0.10	**6.0**	1.5	13	18	18	12	8.8	5.3	**0.04**	0.06	ND	ND	ND	ND	ND	ND
G0023	**124.0**	-36.3	-18.2	-64.8	-69.2	-76.9	-114.0	-85.8	**1.54**	0.34	0.49	0.45	0.40	0.92	0.34	0.16	**5.2**	ND	0.019	ND	ND	ND	ND	ND	**0.56**	2.0	4.2	6.6	7.0	5.1	6.1	8.4
G0048	**118.0**	Dry	Dry	Dry	68.9	192.9	155.0	102.8	**6.84**	Dry	Dry	Dry	1.73	3.29	0.43	0.20	**8.0**	Dry	Dry	Dry	48	27	38	37	**0.07**	Dry	Dry	Dry	0.051	ND	0.085	0.29
G0066R	**126.0**	-11.7	-65.9	-87.9	-34.7	-50.1	-74.0	-343.1	**1.08**	0.94	0.39	0.58	0.38	1.57	0.77	0.01	**15**	0.048	ND	ND	ND	ND	1.9	0.20	**4.68**	2.5	6.6	5.5	6.6	3.4	1.5	3.5
G0079	**89.0**	Dry	Dry	Dry	Dry	128.8	69.0	123.7	**3.16**	Dry	Dry	Dry	Dry	7.99	5.90	0.88	**7.8**	Dry	Dry	Dry	Dry	0.52	0.83	1.80	**0.05**	Dry	Dry	Dry	Dry	ND	0.065	ND
G0083	**N/A**	116.9	111.8	137.9	156.6	5.5	76.0	218.6	**N/A**	0.62	0.44	0.23	0.16	1.36	0.37	0.21	**N/A**	0.062	0.96	0.041	ND	ND	ND	ND	**N/A**	2.5	2.4	3.7	1.0	1.77	2.4	1.7
G0084	**N/A**	-56.7	-77.6	-95.6	-29.3	1.6	-97.0	-113.7	**N/A**	2.31	0.45	1.58	0.47	0.32	0.39	0.02	**N/A**	1.4	ND	0.33	ND	3.6	0.33	0.42	**N/A**	1.4	9.0	2.7	9.0	0.30	0.48	0.18
G0085	**N/A**	-22.1	-62.5	-125.5	23.1	-75.6	-33.0	-77.6	**N/A**	1.37	0.35	1.58	0.60	0.20	0.57	0.05	**N/A**	5.2	0.62	1.3	ND	ND	5.7	0.04	**N/A**	1.1	3.2	1.9	1.6	0.60	0.66	0.30
G0093	**N/A**	122.7	-20.1	-27.8	65.1	-65.9	-38.0	-115.0	**N/A**	0.48	0.26	1.30	0.09	0.19	0.38	0.22	**N/A**	0.25	3.7	1.5	3.3	ND	0.30	4.4	**N/A**	0.064	1.2	1.2	0.52	0.80	1.2	0.63
G0094	**N/A**	-53.6	-30.6	9.7	27.7	-48.7	-28.0	-62.6	**N/A**	0.47	0.52	0.45	0.50	0.16	0.64	0.02	**N/A**	ND	0.41	2.6	5.7	5.3	1.0	ND	**N/A**	5.6	6.8	6.9	6.0	4.8	6.1	4.2
G0095	**N/A**	-100.4	-59.6	-66.6	-108.7	-91.6	-118.0	-162.5	**N/A**	0.55	0.49	0.49	0.79	1.28	0.48	0.05	**N/A**	0.11	ND	ND	ND	ND	0.41	0.38	**N/A**	0.55	2.5	3.6	2.5	2.9	2.1	2.3
G0096	**N/A**	-43.9	41.9	133.1	25.9	-57.3	65.0	-138.6	**N/A**	0.56	0.32	0.50	0.54	0.39	0.61	0.02	**N/A**	0.40	27	16	12	24	25	6.8	**N/A**	1.0	0.25	0.1	0.26	0.45	0.19	4.3
G0097	**N/A**	-61.8	12.7	172.8	-40.7	-86.1	-129.0	-196.8	**N/A**	0.44	1.02	2.85	0.68	0.30	0.69	0.05	**N/A**	ND	18	8.6	0.31	0.022	ND	0.03	**N/A**	2.7	1.4	1.8	2.8	0.52	7.1	2.2
G0098	**N/A**	46.7	-55.5	-77.1	-68.1	92.3	-123.0	-175.3	**N/A**	0.37	0.46	0.49	0.51	0.17	0.47	0.08	**N/A**	0.39	ND	ND	ND	11	ND	ND	**N/A**	1.0	1.7	4.2	1.7	0.14	3.5	2.4
G0099	**N/A**	-79.2	-5.6	-39.2	29.2	254.4	-53.0	49.6	**N/A**	0.39	0.37	0.96	0.46	3.06	0.55	0.06	**N/A**	ND	3.0	0.56	5.3	39	2.9	5.8	**N/A**	3.5	3.2	3.0	2.9	0.57	2.2	0.63
G0100	**N/A**	-83.0	-47.6	-61.5	-89.0	-57.5	-76.0	-197.8	**N/A**	0.57	0.33	1.04	0.70	1.52	0.36	0.01	**N/A**	ND	ND	ND	ND	ND	0.26	0.10	**N/A**	2.2	3.8	9.0	3.8	7.7	2.8	6.7
G0101	**N/A**	29.7	16.2	19.6	-24.0	-63.1	25.0	-58.6	**N/A**	0.47	0.25	0.56	0.52	1.24	0.48	0.04	**N/A**	11	22	15	9.5	0.21	0.13	ND	**N/A**	0.29	1.4	1.1	0.41	0.37	1.2	0.82
G0102	**N/A**	-195.8	-34.9	-2.4	-9.3	10.9	-60.0	-335.7	**N/A**	0.70	1.31	0.39	0.62	0.41	0.43	0.01	**N/A**	ND	ND	ND	ND	ND	3.9	0.32	**N/A**	0.086	0.066	ND	0.064	0.072	0.072	3.50
G0103	**N/A**	-282.1	-309.1	-265.3	-271.4	-318.6	-372.0	-379.3	**N/A**	0.33	0.37	0.97	0.36	0.58	0.33	0.05	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	12	6.7	8.7	6.7	3.4	1.7	0.22
G0104	**N/A**	-351.3	-182.5	-265.1	-300.4	-198.8	-140.0	-146.4	**N/A**	1.23	0.29	0.48	0.58	0.61	0.40	0.01	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	2.0	1.4	1.2	1.4	0.83	0.34	0.43
G0105	**N/A**	-358.7	-220.9	-52.7	-220.8	-79.1	-271.0	-128.7	**N/A**	0.33	0.50	0.69	0.28	1.16	0.85	0.01	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	3.8	4.1	3.5	4.1	1.4	0.94	0.65
G0106	**N/A**	3.6	20.2	30.6	-30.3	-15.7	-95.0	-17.3	**N/A**	0.80	0.37	0.91	0.42	1.06	0.71	0.04	**N/A**	ND	0.031	ND	ND	ND	0.69	0.03	**N/A**	0.069	0.10	ND	0.08	0.074	0.096	0.05
G0107	**N/A**	-178.6	-79.8	-35.2	-58.5	-22.6	-202.0	-99.0	**N/A**	1.01	0.41	0.67	0.46	1.13	0.71	0.01	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	0.91	0.62	0.37	0.62	0.17	0.25	0.17
G0108	**N/A**	-44.7	-68.8	-71.9	-67.2	-102.5	-97.0	-114.0	**N/A**	0.49	0.90	0.77	0.96	0.21	0.34	0.25	**N/A**	ND	ND	ND	ND	0.021	ND	ND	**N/A**	0.074	0.81	7.3	0.81	5.5	4.1	3.1
G0109	**N/A**	-59.8	-34.7	-13.2	-46.3	-1.2	-118.0	-112.9	**N/A**	0.44	0.36	0.58	0.58	1.57	1.62	0.07	**N/A**	0.58	2.4	ND	ND	1.8	ND	ND	**N/A**	1.6	1.3	1.9	1.7	0.48	0.58	0.56
G0110	**N/A**	13.8	-79.3	-67.3	-1.3	-61.2	-94.0	-89.5	**N/A**	0.45	0.29	0.56	0.50	1.50	0.32	0.26	**N/A**	0.77	ND	ND	ND	0.18	ND	ND	**N/A**	1.5	1.8	4.6	1.8	6.3	6.60	5.9
G0111	**N/A**	-46.9	-35.8	-77.6	-45.0	-58.9	14.0	-63.8	**N/A**	0.68	0.50	0.68	0.69	0.15	0.86	0.04	**N/A**	ND	0.18	ND	0.87	ND	14	6.5	**N/A**	1.3	0.91	0.54	0.59	2.1	0.39	0.33
G0112	**N/A**	13.6	39.2	-40.0	191.7	51.3	-46.0	-111.1	**N/A**	0.49	0.36	0.86	0.73	0.80	0.39	0.02	**N/A**	3.5	8.3	0.055	4.0	29	ND	7.5	**N/A**	0.89	0.49	0.36	0.28	0.065	0.26	0.3
G0113	**N/A**	-44.7	-98.4	-98.9	30.7	-54.4	-50.0	-212.2	**N/A**	0.48	1.69	0.98	0.61	0.18	0.35	0.03	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	16	11	1.7	11	0.66	1.4	0.98
G0114	**N/A**	-63.0	-75.3	-53.7	110.9	-12.4	-96.0	-94.0	**N/A**	0.41	0.23	0.70	0.45	1.53	0.47	0.32	**N/A**	0.52	0.29	ND	ND	1.50	ND	ND	**N/A**	1.5	2.9	2.2	1.5	1.5	5.9	1.5
G0115	**N/A**	-72.1	-72.1	-90.0	-92.7	-92.0	-138.0	-135.0	**N/A**	0.59	0.39	3.29	0.62	0.22	0.63	0.05	**N/A**	0.20	ND	ND	ND	ND	ND	ND	**N/A**	5.6	4.6	5.3	4.6	3.9	3.7	3.8
G0116	**N/A**	24.6	-4.6	-70.9	-68.9	-278.0	-296.0	-295.1	**N/A**	3.21	3.21	3.20	1.50	0.23	0.44	0.03	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	59	42	18	42	20	15	14
G0117	**N/A**	-99.9	-105.9	-119.7	-100.5	-91.2	-168.0	-105.2	**N/A**	0.96	0.64	1.35	0.47	1.40	0.60	0.13	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	8.5	16	27	16	14	9.9	7.3
G0118	**N/A**	-11.0	-64.1	-96.0	-61.3	-62.5	-104.0	-93.2	**N/A**	0.54	0.70	0.77	0.96	1.97	0.38	0.31	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	0.19	2.8	14	2.8	9.3	10	8.4
G0119	**N/A**	-40.8	-97.3	-253.8	-92.1	-76.4	-148.0	-195.0	**N/A**	0.70	0.68	1.67	0.29	1.05	0.53	0.04	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	0.63	2.9	2.8	2.9	0.35	0.28	0.35
G0120	**N/A**	-99.5	-69.6	-74.9	-97.8	8.5	-119.0	NS	**N/A**	0.69	0.84	0.96	0.81	1.64	0.44	NS	**N/A**	ND	ND	ND	ND	ND	ND	NS	**N/A**	21	20	20	20	15	16	NS
G0121	**N/A**	N/A	N/A	-63.0	-97.8	-52.9	-80.0	-173.6	**N/A**	N/A	N/A	0.58	0.81	1.24	0.50	0.08	**N/A**	N/A	N/A	0.31	ND	0.21	0.40	0.054	**N/A**	N/A	N/A	4.3	20	3.0	3.7	24
G0122	**N/A**	N/A	N/A	N/A	N/A	N/A	-61.0	-341.4	**N/A**	N/A	N/A	N/A	N/A	N/A	0.30	0.02	**N/A**	N/A	N/A	N/A	N/A	N/A	0.82	0.68	**N/A**	N/A	N/A	N/A	N/A	N/A	1.9	3.3
G0123	**N/A**	N/A	N/A	N/A	N/A	N/A	45.0	-128.6	**N/A**	N/A	N/A	N/A	N/A	N/A	0.31	0.05	**N/A**	N/A	N/A	N/A	N/A	N/A	0.31	ND	**N/A**	N/A	N/A	N/A	N/A	N/A	0.24	1.9
PZ001	**-3.0**	-2.2	3.0	18.0	52.3	79.7	90.0	-25.4	**0.93**	2.39	0.73	3.27	1.59	1.33	3.86	0.20	**1.4**	6.2	2.1	1.9	1.6	0.82	1.4	0.059	**0.04**	0.059	0.032	0.025	0.033	0.026	0.029	ND
PZ004	**-37.0**	-5.4	31.5	12.1	1.5	51.9	84.0	-15.1	**0.62**	2.23	1.67	3.96	3.09	0.93	0.39	0.76	**0.30**	0.88	0.57	1.3	ND	0.94	0.39	1.4	**0.12**	0.076	0.076	0.080	0.071	0.085	0.049	ND
PZ010	**91.0**	-97.7	-12.6	-185.2	-146.9	-1.4	70.0	-157.8	**1.55**	0.69	2.50	3.23	1.07	2.38	0.87	0.82	**1.0**	2.2	6.7	0.74	9.70	6.1	7.6	7.2	**ND**	1.9	0.4	1.2	0.63	0.29	0.36	0.24
PZ011	**111.0**	-76.9	-213.1	-110.6	-68.5	-97.9	-93.0	-151.3	**0.13**	0.94	0.18	6.28	0.65	2.20	0.42	0.04	**1.4**	ND	ND	ND	ND	ND	ND	ND	**2.81**	3.2	5.5	8.3	5.5	9.1	6.2	8.5
PZ012	**89.0**	-146.5	-278.1	-164.0	-82.0	-104.2	-72.0	-138.2	**0.14**	0.89	0.19	0.56	0.59	0.24	0.37	0.02	**1.8**	ND	ND	ND	ND	ND	0.81	ND	**2.88**	12.0	9.9	9.7	9.9	7.0	2.6	2.8
PZ013	**91.0**	-65.4	-54.0	-81.1	-106.7	-56.1	-51.0	-122.3	**0.12**	0.62	1.02	5.79	0.44	1.10	0.42	0.09	**5.4**	ND	ND	0.089	ND	8.3	2.4	5.6	**11.3**	1.4	1.3	2.0	1.3	1.6	2.1	1.4
PZ014	**57.0**	-21.3	-58.7	-36.1	-18.2	-47.5	-76.0	-48.9	**1.48**	0.69	0.30	0.68	0.28	0.20	0.80	0.34	**0.52**	ND	1.8	1.1	ND	ND	ND	0.92	**0.04**	0.3	0.055	ND	0.097	0.14	0.11	ND
PZ015	**130.0**	83.2	55.0	0.8	1.2	-35.3	-96.0	35.4	**0.73**	0.49	0.42	1.74	0.59	1.47	0.35	0.14	**7.0**	18	20	1.0	3.2	13	ND	12	**0.91**	0.64	0.43	0.87	0.97	1.1	1.2	0.67
PZ016	**125.0**	-51.6	-23.9	6.2	12.2	144.9	70.0	121.9	**3.11**	0.41	0.32	1.23	1.08	0.33	0.36	0.17	**6.7**	ND	0.30	0.91	0.81	5.00	2.7	7.9	**0.03**	0.46	0.59	0.47	0.36	0.14	0.21	ND
PZ017R	**127.0**	135.4	90.5	125.1	202.6	120.9	111.0	144.5	**0.72**	2.38	4.52	1.69	3.79	5.92	3.44	0.03	**9.1**	19	36	49	48	52	30	24	**1.24**	0.037	0.024	0.031	0.022	ND	ND	0.03
PZ018	**118.0**	122.3	77.0	151.9	187.6	94.4	127.0	11.5	**0.17**	1.14	0.96	0.38	0.76	0.33	9.26	0.01	**8.3**	25	27	21	25	ND	26	5	**1.04**	0.023	ND	0.025	0.085	0.32	ND	0.32

Notes:

Dry = well could not be sampled due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	ORP (mV)								DO (mg/L)								Nitrate/Nitrite (mg/L)								Ammonia (mg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow-Intermediate Wells in RAO Treatment Areas																																
G0075	**99.0**	123.9	119.8	143.0	135.7	36.8	73.0	143.9	**0.34**	0.42	1.22	1.03	0.40	1.51	0.71	0.01	**4.4**	ND	ND	ND	ND	0.49	2.4	3.3	**0.03**	0.039	0.024	0.044	0.024	0.056	0.062	ND
G0080	**N/A**	46.7	79.7	160.8	25.8	50.8	36.0	170.1	**N/A**	1.65	3.67	0.41	0.08	0.18	0.39	0.04	**N/A**	1.9	1.8	2.2	2.5	2.8	2.9	1.4	**N/A**	0.26	ND	0.049	0.59	0.064	0.83	1.3
G0081	**N/A**	211.5	77.3	153.2	145.8	174.2	52.0	204.1	**N/A**	1.56	0.36	0.38	0.22	1.63	0.59	0.39	**N/A**	1.1	1.3	0.2	ND	0.056	ND	3.6	**N/A**	0.69	0.59	0.47	0.27	0.23	0.31	ND
G0082	**N/A**	205.9	43.3	62.2	131.7	164.0	-12.0	105.6	**N/A**	1.31	0.20	0.44	0.06	1.40	0.47	0.13	**N/A**	3.3	2.3	1.4	0.47	1.9	0.46	2.8	**N/A**	0.072	0.08	0.082	0.028	0.022	0.11	0.19
G0088	**N/A**	177.2	47.5	156.2	91.0	81.5	73.0	247.9	**N/A**	0.41	0.28	0.39	0.09	0.27	0.50	0.01	**N/A**	1.1	3.8	3.1	4.1	0.35	1.20	0.81	**N/A**	ND	0.025	ND	0.024	0.092	0.088	0.07
G0089	**N/A**	212.4	-221.7	38.8	145.4	91.5	89.0	127.3	**N/A**	1.39	0.19	0.54	0.07	0.35	0.35	0.01	**N/A**	3.4	3.6	5.2	4.8	2.0	0.88	1.5	**N/A**	0.16	0.12	0.12	0.12	0.09	0.16	0.11
G0090	**N/A**	205	47.1	44.9	142.0	65.9	103.0	191.9	**N/A**	3.26	5.11	0.48	0.13	0.53	1.76	1.24	**N/A**	5.4	7.6	4.2	1.2	2.9	3.1	5.1	**N/A**	ND	ND	0.036	ND	ND	0.026	ND
Intermediate Wells in RAO Treatment Areas																																
G0045	**79.0**	-6.2	-91.9	-112.8	174.4	161.7	-123.0	-268.5	**0.13**	0.48	0.55	1.47	0.59	0.55	0.38	0.03	**0.02**	ND	0.042	ND	ND	ND	ND	ND	**5.53**	9.6	3.6	3.6	3.1	3.9	3.4	2.1
G0049	**103.0**	-73.1	-58.3	-72.9	-41.6	-47.5	-86.0	-109.7	**0.14**	0.27	0.26	0.36	0.43	1.19	0.34	0.07	**0.04**	ND	ND	ND	ND	ND	ND	ND	**0.39**	2.5	2.0	1.4	2.0	1.5	1.2	1.5
G0076	**-53.0**	-1.5	-30.9	12.6	69.3	31.1	-27.0	-10.4	**0.11**	0.27	0.61	0.25	0.08	1.71	0.56	0.01	**0.01**	ND	ND	ND	ND	ND	ND	ND	**1.67**	0.42	0.37	0.40	0.37	0.87	1.4	1.6

Notes:

Dry = well could not be sampled due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	TKN (mg/L)								DOC (mg/L)								Carbon Dioxide (mg/L)								Methane (µg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Areas																																
G0017	**0.40**	0.45	0.63	1.1	ND	ND	0.83	0.71	**3.6**	12	6.6	5.5	5.1	7.7	7.1	7.6	**164**	204	200	218	222	213	182	196	**0.1**	7800	9600	13000	8200	5400	8500	1500
G0022	**0.37**	ND	ND	ND	ND	ND	ND	ND	**1.4**	1.8	3.1	3.1	2.7	2.6	3.0	3.2	**93**	107	133	142	129	151	147	147	**ND**	310	220	150	44	ND	ND	6100
G0023	**0.82**	3.0	6.6	7.6	10	7.1	5.7	5.6	**1.8**	13	16	13	8.6	6.1	4.6	4.9	**85**	200	231	213	160	147	116	160	**ND**	12000	26000	21000	20000	4300	9900	7400
G0048	**0.20**	Dry	Dry	Dry	ND	ND	ND	ND	**1.3**	Dry	Dry	Dry	3.3	1.8	4.9	3.0	**73**	Dry	Dry	Dry	62	23	76	62	**ND**	Dry	Dry	Dry	300	1400	3400	2200
G0066R	**7.70**	2.2	9.9	5.8	4.6	1.2	2.2	4.9	**2.1**	4.6	300	6.6	4.8	5.8	5.4	13	**132**	213	356	249	249	276	262	284	**0.6**	16000	19000	20000	13000	5000	6000	4000
G0079	**0.06**	Dry	Dry	Dry	Dry	ND	ND	0.83	**1.8**	Dry	Dry	Dry	Dry	3.2	6.0	5.0	**108**	Dry	Dry	Dry	Dry	30	138	138	**ND**	Dry	Dry	Dry	Dry	ND	ND	ND
G0083	**N/A**	1.7	2.1	3.8	1.4	2.2	2.8	1.8	**N/A**	2.6	2.5	3.3	3.5	4.3	5.2	4.2	**N/A**	133	142	164	204	258	240	218	**N/A**	14	6.4	37	44	80	46	130
G0084	**N/A**	2.6	14	4.2	1.5	0.88	1.1	0.97	**N/A**	23	150	6.7	5.1	4.5	5.4	4.4	**N/A**	151	178	156	187	204	182	200	**N/A**	270	17000	19000	18000	6600	12000	8300
G0085	**N/A**	4.3	4.3	2.8	2.0	1.1	0.89	0.82	**N/A**	250	30	5.8	5.1	4.2	4.0	4.1	**N/A**	173	204	169	196	200	178	169	**N/A**	5300	19000	18000	12000	3400	4600	6500
G0093	**N/A**	0.37	5.7	ND	1.0	1.0	1.5	ND	**N/A**	2.0	110	4.5	4.9	3.8	5.4	4.0	**N/A**	102	93	142	133	138	156	147	**N/A**	2400	6000	22000	20000	9400	5800	3500
G0094	**N/A**	5.6	7.9	9.6	8.7	8.7	6.9	2.5	**N/A**	8.9	9.5	6.2	8.9	7.2	5.8	6.5	**N/A**	89	102	120	133	142	129	151	**N/A**	18000	20000	20000	23000	12000	19000	13000
G0095	**N/A**	1.7	3.4	4.6	4.0	4.3	ND	3.9	**N/A**	5.5	6.3	8.2	8.2	7.7	12	12	**N/A**	204	218	244	280	298	324	356	**N/A**	12000	19000	17000	19000	14000	6900	10000
G0096	**N/A**	1.0	ND	ND	ND	ND	ND	6.1	**N/A**	2.2	6.1	4.2	3.6	3.2	4.4	46	**N/A**	89	107	133	120	124	124	218	**N/A**	10000	8000	7300	5200	4300	5100	5900
G0097	**N/A**	4.9	3.5	3.9	7.2	9.1	16	5.3	**N/A**	140	20	15	35	50	78	18	**N/A**	289	160	182	293	302	382	276	**N/A**	15000	12000	13000	20000	9300	33000	10000
G0098	**N/A**	2.1	2.9	6.3	5.9	1.8	3.8	3.7	**N/A**	8.3	8.1	11	9.2	3.7	6.8	8.6	**N/A**	120	147	160	160	44	142	200	**N/A**	14000	20000	24000	21000	2000	13000	12000
G0099	**N/A**	2.9	3.2	4.0	4.2	ND	3.4	1.3	**N/A**	5.9	5.6	6.9	4.8	3.5	4.2	4.8	**N/A**	89	98	107	98	62	107	116	**N/A**	14000	11000	14000	12000	2300	6500	610
G0100	**N/A**	2.2	4.8	11	14	12	3.0	7.9	**N/A**	4.1	6.3	16	18	15	8.0	12	**N/A**	271	276	249	271	329	267	360	**N/A**	8500	13000	19000	28000	14000	16000	11000
G0101	**N/A**	1.2	1.2	2.1	2.5	0.94	2.1	2.2	**N/A**	6.6	10	10	15	9.1	10	8.5	**N/A**	204	ND	369	391	271	338	338	**N/A**	9800	14000	10000	9200	9400	5500	3900
G0102	**N/A**	ND	0.32	ND	ND	ND	ND	ND	**N/A**	4.0	4.0	ND	4.0	3.8	3.9	88	**N/A**	169	178	182	196	187	191	342	**N/A**	2.3	2.6	2.8	3.1	1.6	1.8	120
G0103	**N/A**	13	8.7	12	7.4	4.1	2.1	2.7	**N/A**	210	260	420	240	230	88	86	**N/A**	218	218	262	262	298	204	258	**N/A**	11	24	45	68	130	72	120
G0104	**N/A**	2.0	1.6	1.8	1.7	0.94	ND	1.1	**N/A**	8.9	6.5	5.0	8.0	4.5	5.0	5.1	**N/A**	213	244	204	240	209	209	222	**N/A**	1500	3100	1200	3800	2000	1600	950
G0105	**N/A**	2.6	4.8	3.7	3.4	1.9	1.7	1.2	**N/A**	12	8.5	5.7	6.6	5.9	4.3	4.2	**N/A**	373	324	249	293	258	213	204	**N/A**	1200	1700	830	470	670	2400	840
G0106	**N/A**	0.67	0.78	ND	ND	ND	1.1	ND	**N/A**	4.7	3.8	ND	3.9	3.9	3.9	4.0	**N/A**	191	182	191	173	187	169	196	**N/A**	12	35	3.7	3.7	3.4	3.8	2.0
G0107	**N/A**	0.98	1.4	ND	1.4	ND	0.83	0.74	**N/A**	13	5.1	4.6	4.3	4.4	4.1	4.4	**N/A**	338	240	204	187	200	173	200	**N/A**	5500	7300	8300	NS	5600	130	200
G0108	**N/A**	2.1	3.0	9.2	8.5	7.6	5.5	4.8	**N/A**	83	17	16	9.3	7.9	7.6	12	**N/A**	196	187	200	196	173	138	249	**N/A**	16000	18000	23000	25000	16000	33000	16000
G0109	**N/A**	1.1	1.5	2.3	2.5	0.91	0.77	0.97	**N/A**	3.1	3.6	4.7	3.5	3.7	1.8	2.9	**N/A**	89	89	107	120	133	107	120	**N/A**	13000	14000	14000	8000	2000	3000	630
G0110	**N/A**	2.2	2.9	8.0	9.3	ND	8.0	8.1	**N/A**	9.0	11	21	16	15	13	9.6	**N/A**	182	258	302	258	262	258	324	**N/A**	16000	17000	22000	24000	11000	20000	13000
G0111	**N/A**	2.2	2.4	1.6	1.5	2.8	ND	1.9	**N/A**	7.8	7.1	5.7	6.6	8.5	7.9	8.2	**N/A**	258	289	253	267	324	320	404	**N/A**	11000	12000	16000	18000	9800	3800	3400
G0112	**N/A**	0.78	0.44	ND	ND	ND	ND	ND	**N/A**	3.6	3.4	3.4	2.8	2.4	3.3	3.9	**N/A**	98	93	93	98	76	102	116	**N/A**	12000	11000	14000	9600	1300	5900	1900
G0113	**N/A**	28	19	3.2	2.9	1.4	2.8	1.7	**N/A**	630	150	7.7	6.4	5.0	3.9	4.7	**N/A**	240	240	160	147	151	102	133	**N/A**	17000	21000	21000	21000	6100	22000	11000
G0114	**N/A**	1.9	3.4	3.0	2.3	1.2	5.9	1.9	**N/A**	7.1	17	5.2	3.6	3.1	3.1	3.7	**N/A**	111	142	116	102	102	93	124	**N/A**	12000	18000	22000	21000	6300	9700	5500
G0115	**N/A**	7.1	8.1	8.8	7.1	5.1	4.3	4.2	**N/A**	19	14	13	17	18	16	10	**N/A**	324	338	333	324	436	347	364	**N/A**	21000	23000	25000	28000	13000	23000	11000
G0116	**N/A**	58	63	34	26	24	15	18	**N/A**	1200	560	110	47	33	23	16	**N/A**	293	302	360	427	444	400	489	**N/A**	14000	13000	21000	30000	17000	29000	9900
G0117	**N/A**	8.3	19	33	20	16	9.0	8.2	**N/A**	37	13	27	21	18	13	11	**N/A**	444	356	444	436	444	422	436	**N/A**	10000	25000	25000	33000	15000	28000	15000
G0118	**N/A**	1.6	7.1	19	22	19	16	13	**N/A**	49	26	64	30	57	44	22	**N/A**	244	356	489	373	489	378	342	**N/A**	12000	14000	19000	18000	8100	22000	15000
G0119	**N/A**	1.1	7.3	3.1	2.3	ND	ND	1.1	**N/A**	4.7	250	6.3	5.7	5.2	5.4	4.7	**N/A**	169	404	244	209	231	231	213	**N/A**	9900	15000	16000	16000	7100	10000	2100
G0120	**N/A**	19	23	27	26	17	15	NS	**N/A**	96	31	44	31	26	25	NS	**N/A**	489	444	444	440	431	369	NS	**N/A**	18000	21000	23000	24000	13000	26000	NS
G0121	**N/A**	N/A	N/A	9.1	5.8	2.4	4.4	44	**N/A**	N/A	N/A	59	12	8.1	8.0	650	**N/A**	N/A	N/A	382	280	240	222	293	**N/A**	N/A	N/A	20000	20000	8600	10000	10000
G0122	**N/A**	N/A	N/A	N/A	N/A	N/A	3.0	5.6	**N/A**	N/A	N/A	N/A	N/A	N/A	7.0	32	**N/A**	N/A	N/A	N/A	N/A	N/A	258	489	**N/A**	N/A	N/A	N/A	N/A	N/A	8500	11000
G0123	**N/A**	N/A	N/A	N/A	N/A	N/A	0.84	3.5	**N/A**	N/A	N/A	N/A	N/A	N/A	5.6	9.4	**N/A**	N/A	N/A	N/A	N/A	N/A	231	338	**N/A**	N/A	N/A	N/A	N/A	N/A	15000	18000
PZ001	**0.09**	0.33	0.27	ND	0.61	ND	0.74	0.85	**5.8**	6.3	6.3	6.3	6.7	6.2	5.6	6.6	**205**	244	249	249	236	236	222	231	**0.1**	55	75	13	7.8	1.6	ND	ND
PZ004	**0.13**	0.59	0.19	ND	ND	ND	ND	0.81	**3.9**	5.6	6.5	5.8	6.7	6.2	5.4	6.2	**198**	222	244	227	222	244	218	227	**0.1**	37	160	94	16	0.84	10	1.0
PZ010	**0.29**	2.7	0.79	2.9	9.6	ND	ND	0.84	**3.2**	3.6	3.5	4.4	4.1	5.4	5.7	6.3	**166**	240	209	231	280	151	213	231	**ND**	7700	5500	10000	6000	1700	2200	1700
PZ011	**3.29**	5.0	5.8	12	15	10	4.5	13	**2.3**	140	12	24	5.1	14	11	11	**140**	404	413	400	347	364	329	360	**0.2**	12000	17000	19000	28000	17000	23000	12000
PZ012	**3.80**	15	12	12	11	7.5	4.6	5.2	**2.3**	260	24	18	13	13	10	9	**136**	409	489	409	320	391	391	347	**0.1**	16000	22000	23000	22000	14000	12000	6300
PZ013	**10.13**	3.1	3.8	4.2	7.4	2.3	2.7	2.1	**4.8**	8.2	13	13	12	7.1	9.8	7.4	**148**	364	444	489	444	338	347	396	**0.2**	15000	14000	17000	20000	4000	6300	3900
PZ014	**0.09**	0.47	0.77	ND	1.6	ND	ND	0.95	**1.5**	4.3	6.4	5.7	4.2	4.5	5.3	5.5	**163**	231	338	302	196	196	209	258	**0.1**	1500	1300	1500	870	580	270	790
PZ015	**1.13**	0.64	ND	1.6	1.5	0.69	3.3	ND	**1.9**	5.3	4.8	3.9	4.0	4.5	4.1	3.8	**75**	93	80	111	107	124	129	93	**ND**	7600	6300	7600	5500	4100	6100	550
PZ016	**0.34**	0.63	0.91	1.0	0.73	ND	ND	ND	**1.8**	4.8	5.1	3.5	2.8	2.7	2.5	3.9	**81**	120	124	138	133	151	142	156	**ND**	5200	4500	2800	NS	660	710	190
PZ017R	**1.66**	ND	ND	ND	ND	ND	ND	ND	**2.6**	2.4	2.6	3.0	3.3	3.1	5.1	4.2	**97**	71	67	58	67	62	84	124	**1.3**	260	410	300	370	19	1800	6500
PZ018	**1.02**	ND	ND	ND	ND	ND	ND	2.4	**1.9**	2.3	3.3	3.0	3.1	2.8	4.0	11	**92**	76	93	98	89	107	43	160	**0.5**	910	2100	1800	1100	510	ND	7900

Notes:

Dry = well could not be sample due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	TKN (mg/L)								DOC (mg/L)								Carbon Dioxide (mg/L)								Methane (µg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow-Intermediate Wells in RAO Treatment Areas																																
G0075	**0.37**	0.35	ND	ND	ND	ND	ND	ND	**1.60**	2.6	2.6	2.5	2.5	3.2	3.4	2.7	**88**	98	116	116	120	196	160	129	**3.3**	400	990	310	170	150	ND	ND
G0080	**N/A**	ND	0.23	ND	7.5	ND	0.97	2.1	**N/A**	2.3	3.2	2.2	2.4	2.6	2.8	8.3	**N/A**	107	84	116	138	133	138	120	**N/A**	100	8.9	24	35	2.5	8.8	1.1
G0081	**N/A**	0.89	0.77	ND	ND	1.2	1.1	ND	**N/A**	4.6	5.6	6.8	10	8.6	6.6	3.6	**N/A**	156	178	169	204	169	124	124	**N/A**	11000	11000	7300	9200	2900	1100	76
G0082	**N/A**	ND	ND	ND	0.99	ND	ND	0.96	**N/A**	3.7	4.0	4.4	4.1	3.0	4.0	4.9	**N/A**	129	133	147	129	102	116	164	**N/A**	2200	2900	3100	2900	200	460	850
G0088	**N/A**	ND	ND	ND	ND	ND	ND	ND	**N/A**	2.3	2.7	2.4	2.4	2.7	2.5	3.2	**N/A**	102	116	129	129	142	124	133	**N/A**	320	140	70	290	40	2.9	11
G0089	**N/A**	0.42	1.0	ND	0.85	0.80	1.4	0.84	**N/A**	3.6	5.8	4.8	5.7	5.2	5.8	4.5	**N/A**	133	169	160	173	169	147	164	**N/A**	5000	6400	6100	9400	4900	3400	2100
G0090	**N/A**	ND	ND	ND	1.1	ND	ND	ND	**N/A**	3.5	3.2	4.4	4.4	3.8	3.6	3.5	**N/A**	142	120	147	133	138	124	138	**N/A**	1900	580	790	870	69	ND	17
Intermediate Wells in RAO Treatment Areas																																
G0045	**6.17**	4.9	2.6	3.6	4.6	4.0	3.3	2.0	**3.8**	5.2	5.1	5.6	5.2	5.5	5.1	6.0	**172**	173	182	187	182	196	187	209	**1.3**	1.8	2.0	3.0	3.3	1.7	2.8	0.79
G0049	**0.41**	2.3	2.2	1.9	1.4	1.3	1.4	1.7	**1.4**	9.3	3.2	3.9	2.9	2.8	2.9	3.2	**106**	156	133	151	138	133	129	138	**ND**	2700	360	3000	8.8	3.6	2.3	3.3
G0076	**1.90**	0.26	0.44	ND	ND	1.1	1.3	1.8	**1.0**	2.4	2.8	3.2	2.8	2.8	3.3	3.4	**105**	111	133	142	151	147	142	164	**0.4**	310	83	94	110	310	180	210

Notes:

Dry = well could not be sample due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbo
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	Alkalinity (mg/L)								Ferrous Iron (mg/L)								Sulfate (mg/L)								Sulfide (mg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Areas																																
G0017	**374**	460	450	490	500	480	410	440	**0.14**	0.45	0.27	ND	1.61	0.60	0.81	0.59	**471**	410	350	190	330	380	340	540	**ND**	24	14	13	8.8	8.0	8.0	6.4
G0022	**213**	240	300	320	290	340	330	330	**0.10**	1.67	0.07	0.04	ND	0.03	0.26	0.35	**30**	58	64	72	72	89	110	130	**ND**	ND	ND	ND	13	ND	0.8	0.8
G0023	**194**	450	520	480	360	330	260	360	**0.09**	6.46	7.15	3.25	4.90	13.00	>15	8.25	**50**	22	23	11	53	65	110	82	**0.20**	ND	ND	ND	ND	ND	ND	1.6
G0048	**167**	Dry	Dry	Dry	140	51	170	140	**0.26**	Dry	Dry	Dry	1.88	0.06	1.25	0.12	**40**	Dry	Dry	Dry	79	56	130	62	**0.80**	Dry	Dry	Dry	ND	ND	ND	0.8
G0066R	**299**	480	800	560	560	620	590	640	**0.37**	2.45	16.0	0.9	3.44	3.16	2.52	2.15	**37**	130	32	210	310	530	530	450	**0.20**	ND	ND	2.4	ND	ND	ND	2.4
G0079	**239**	Dry	Dry	Dry	Dry	67	310	310	**0.21**	Dry	Dry	Dry	Dry	0.06	0.25	0.03	**33**	Dry	Dry	Dry	Dry	15	48	50	**0.70**	Dry	Dry	Dry	Dry	ND	ND	ND
G0083	**N/A**	300	320	370	460	580	540	490	**N/A**	0.35	0.05	ND	ND	0.08	0.85	ND	**N/A**	210	150	260	220	200	200	280	**N/A**	ND	ND	ND	ND	ND	ND	0.8
G0084	**N/A**	340	400	350	420	460	410	450	**N/A**	2.71	2.62	0.84	5.06	1.81	7.92	2.72	**N/A**	53	23	40	41	73	120	100	**N/A**	ND	ND	1.2	ND	ND	0.8	0.8
G0085	**N/A**	390	460	380	440	450	400	380	**N/A**	5.58	3.27	2.32	6.12	3.07	1.70	3.54	**N/A**	94	62	100	130	200	210	190	**N/A**	ND	ND	1.2	ND	ND	ND	3.2
G0093	**N/A**	230	210	320	300	310	350	330	**N/A**	2.54	1.93	3.03	3.28	4.76	11.64	2.13	**N/A**	85	31	37	62	84	140	110	**N/A**	ND	ND	ND	ND	ND	ND	0.8
G0094	**N/A**	200	230	270	300	320	290	340	**N/A**	5.68	2.67	3.09	6.10	9.36	12.20	4.98	**N/A**	31	49	65	45	72	59	89	**N/A**	ND	ND	ND	ND	ND	ND	0.8
G0095	**N/A**	460	490	550	630	670	730	800	**N/A**	4.96	7.25	1.68	4.88	13.00	>15	1.20	**N/A**	25	93	110	190	360	340	530	**N/A**	ND	ND	1.2	ND	ND	ND	0.8
G0096	**N/A**	200	240	300	270	280	280	490	**N/A**	3.16	0.08	0.03	ND	ND	1.26	1.09	**N/A**	40	49	56	43	71	85	72	**N/A**	ND	0.8	1.2	ND	ND	ND	0.8
G0097	**N/A**	650	360	410	660	680	860	620	**N/A**	10.20	5.2	ND	1.43	13.00	>15	9.06	**N/A**	9	100	85	70	57	38	130	**N/A**	ND	ND	ND	ND	ND	0.8	ND
G0098	**N/A**	270	330	360	360	100	320	450	**N/A**	5.36	12.9	1.97	2.68	0.67	>15	8.88	**N/A**	55	21	22	47	100	73	65	**N/A**	ND	ND	ND	ND	ND	ND	0.8
G0099	**N/A**	200	220	240	220	140	240	260	**N/A**	10.48	2.28	3.12	3.28	0.45	>15	2.34	**N/A**	51	30	32	49	72	66	95	**N/A**	ND	ND	ND	ND	ND	0.8	0.8
G0100	**N/A**	610	620	560	610	740	600	810	**N/A**	2.46	10.2	0.92	1.40	2.97	11.40	1.66	**N/A**	28	20	40	86	150	290	270	**N/A**	ND	ND	1.6	ND	ND	ND	2.4
G0101	**N/A**	460	ND	830	880	610	760	760	**N/A**	1.27	1.92	1.95	1.62	5.98	0.85	1.67	**N/A**	180	370	380	260	510	560	530	**N/A**	ND	ND	1.2	ND	ND	0.8	1.6
G0102	**N/A**	380	400	410	440	420	430	770	**N/A**	2.20	2.13	2.24	1.79	2.30	2.95	1.86	**N/A**	980	1100	1100	1100	1100	1100	740	**N/A**	ND	ND	ND	ND	ND	ND	4.8
G0103	**N/A**	490	490	590	590	670	460	580	**N/A**	NS	2.15	3.3	2.09	0.54	1.74	0.56	**N/A**	480	670	410	610	490	820	970	**N/A**	29	11	40	25	31	24	34
G0104	**N/A**	480	550	460	540	470	470	500	**N/A**	1.37	1.38	1.22	2.43	2.73	7.28	2.37	**N/A**	910	920	960	1200	1000	820	950	**N/A**	6.1	1.6	3.6	8.8	ND	ND	ND
G0105	**N/A**	840	730	560	660	580	480	460	**N/A**	ND	1.29	0.7	1.65	3.13	3.48	1.50	**N/A**	640	840	960	1000	870	1100	1200	**N/A**	20	ND	ND	2.4	ND	ND	ND
G0106	**N/A**	430	410	430	390	420	380	440	**N/A**	0.88	1.5	1.32	2.27	2.56	0.77	0.63	**N/A**	900	9400	950	1100	1000	1100	1200	**N/A**	ND	ND	0.8	ND	ND	ND	0.8
G0107	**N/A**	760	540	460	420	450	390	450	**N/A**	0.43	1.9	1.81	1.44	2.00	2.40	2.36	**N/A**	660	9200	1100	1100	1000	1100	1200	**N/A**	3.5	ND	ND	ND	ND	ND	ND
G0108	**N/A**	440	420	450	440	390	310	560	**N/A**	2.95	2.69	1.19	2.31	13.00	>15	10.00	**N/A**	2.2	0.8	3.8	4.6	5.6	24	13	**N/A**	1.1	15	ND	0.8	ND	ND	ND
G0109	**N/A**	200	200	240	270	300	240	270	**N/A**	15.0	3.12	3.2	2.28	8.92	12.48	6.30	**N/A**	65	77	89	72	99	110	120	**N/A**	0.8	ND	ND	ND	ND	0.8	2.4
G0110	**N/A**	410	580	680	580	590	580	730	**N/A**	2.99	6.5	2.34	1.44	13.00	>15	8.64	**N/A**	38	23	4	10	17	15	42	**N/A**	ND	ND	ND	13	ND	ND	0.8
G0111	**N/A**	580	650	570	600	730	720	910	**N/A**	2.90	7.8	1.30	5.22	4.50	0.38	1.79	**N/A**	110	56	54	160	150	370	200	**N/A**	ND	ND	ND	0.8	ND	ND	1.6
G0112	**N/A**	220	210	210	220	170	230	260	**N/A**	1.67	1.19	1.39	2.45	ND	7.80	1.04	**N/A**	54	63	71	110	61	110	100	**N/A**	ND	1.1	ND	ND	ND	ND	0.8
G0113	**N/A**	540	660	360	330	340	230	300	**N/A**	3.12	15.8	1.92	4.76	5.42	11.68	5.66	**N/A**	33	11	28	37	63	77	100	**N/A**	1.3	ND	1.2	ND	ND	ND	2.4
G0114	**N/A**	250	320	260	230	230	210	280	**N/A**	3.94	7.58	3.2	4.32	12.92	>15	6.12	**N/A**	54	33	64	78	80	80	72	**N/A**	ND	ND	ND	ND	ND	ND	0.8
G0115	**N/A**	730	760	750	730	980	780	820	**N/A**	2.36	13.9	0.09	13.16	5.96	>15	1.67	**N/A**	54	98	140	180	200	300	420	**N/A**	0.8	ND	ND	ND	ND	ND	0.8
G0116	**N/A**	660	680	810	960	1000	900	1100	**N/A**	NS	NS	NS	3.30	1.81	1.80	3.02	**N/A**	8.9	12	11.0	35	110	250	240	**N/A**	ND	ND	0.8	ND	1.6	ND	1.6
G0117	**N/A**	1000	800	1000	980	1000	950	980	**N/A**	5.30	15.0	2.32	3.30	13.00	5.64	2.56	**N/A**	11	130	170	280	240	400	350	**N/A**	ND	ND	ND	ND	ND	ND	1.6
G0118	**N/A**	550	800	1100	840	1100	850	770	**N/A**	4.82	10.65	15.00	4.18	13.00	3.28	10.40	**N/A**	8.2	13	ND	4.4	3.2	ND	43	**N/A**	ND	ND	ND	ND	ND	ND	ND
G0119	**N/A**	380	910	550	470	520	520	480	**N/A**	1.91	8.40	0.68	3.44	5.72	7.04	1.62	**N/A**	380	31	490	600	660	700	680	**N/A**	ND	ND	6.4	ND	ND	ND	0.8
G0120	**N/A**	1100	1000	1000	990	970	830	NS	**N/A**	1.48	11.5	2.53	2.23	5.16	>15	NS	**N/A**	36	110	48	160	190	260	NS	**N/A**	ND	ND	0.8	ND	ND	ND	NS
G0121	**N/A**	N/A	N/A	860	630	540	500	660	**N/A**	N/A	N/A	3.06	2.23	4.84	8.08	2.88	**N/A**	N/A	N/A	42	400	500	570	45	**N/A**	N/A	N/A	ND	ND	ND	ND	4.8
G0122	**N/A**	N/A	N/A	N/A	N/A	N/A	580	1100	**N/A**	N/A	N/A	N/A	N/A	N/A	7.80	2.79	**N/A**	N/A	N/A	N/A	N/A	N/A	700	360	**N/A**	N/A	N/A	N/A	N/A	N/A	ND	4.8
G0123	**N/A**	N/A	N/A	N/A	N/A	N/A	520	760	**N/A**	N/A	N/A	N/A	N/A	N/A	0.88	5.12	**N/A**	N/A	N/A	N/A	N/A	N/A	490	230	**N/A**	N/A	N/A	N/A	N/A	N/A	ND	ND
PZ001	**428**	550	560	560	530	530	500	520	**0.32**	0.57	0.53	0.5	1.03	0.13	0.11	0.43	**605**	1000	1100	1000	1100	1200	980	1300	**ND**	ND	ND	ND	ND	ND	ND	2.4
PZ004	**451**	500	550	510	500	550	490	510	**0.70**	0.64	0.30	0.63	1.12	0.15	0.30	0.19	**601**	870	960	930	1100	1100	970	1200	**0.30**	ND	ND	ND	ND	ND	ND	0.8
PZ010	**375**	540	470	520	630	340	480	520	**0.11**	3.40	0.81	1.01	1.13	0.94	0.40	0.69	**193**	190	140	320	290	200	410	680	**0.50**	ND	ND	2.0	ND	0.8	ND	0.8
PZ011	**316**	910	930	900	780	820	740	810	**0.13**	3.72	6.14	1.05	6.36	8.48	8.08	2.18	**178**	80	98	120	230	320	350	480	**0.20**	ND	ND	ND	ND	ND	ND	0.8
PZ012	**311**	920	1100	920	720	880	630	780	**0.11**	1.71	5.58	1.7	3.22	6.22	3.92	2.40	**101**	160	130	230	230	390	360	450	**0.20**	1.4	ND	1.2	ND	ND	ND	0.8
PZ013	**338**	820	1000	1100	1000	760	780	890	**0.09**	10.96	2.33	2.37	1.68	2.24	4.32	1.20	**142**	220	170	280	210	210	280	310	**0.7**	0.96	ND	0.8	ND	ND	ND	1.6
PZ014	**370**	520	760	680	440	440	470	580	**0.09**	1.92	1.61	1.3	0.82	0.87	1.30	2.87	**123**	310	580	350	380	400	480	420	**ND**	ND	ND	ND	ND	ND	ND	1.6
PZ015	**169**	210	180	250	240	280	290	210	**0.11**	0.58	0.57	2.94	3.94	9.08	>15	4.06	**33**	82	82	65	72	53	96	77	**ND**	ND	ND	ND	ND	ND	0.8	ND
PZ016	**183**	270	280	310	300	340	320	350	**0.18**	2.43	1.59	0.86	0.48	ND	0.35	0.13	**43**	81	110	80	74	89	110	91	**ND**	ND	ND	ND	ND	24	ND	0.8
PZ017R	**220**	160	150	130	150	140	190	280	**0.02**	ND	ND	0.04	0.22	0.32	0.42	0.27	**42**	52	53	55	69	64	62	81	**0.2**	ND	ND	ND	ND	ND	ND	ND
PZ018	**208**	170	210	220	200	240	96	360	**0.16**	0.01	ND	ND	0.25	0.24	0.42	6.30	**37**	62	64	76	93	110	67	53	**0.2**	ND	ND	ND	ND	ND	ND	ND

Notes:

Dry = well could not be sample due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	Alkalinity (mg/L)								Ferrous Iron (mg/L)								Sulfate (mg/L)								Sulfide (mg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow-Intermediate Wells in RAO Treatment Areas																																
G0075	**200**	220	260	260	270	440	360	290	**0.18**	ND	ND	ND	ND	ND	0.25	0.10	**44**	110	120	130	180	120	150	190	**ND**	ND	ND	0.8	ND	ND	ND	ND
G0080	**N/A**	240	190	260	310	300	310	270	**N/A**	0.07	0.11	ND	0.33	ND	0.78	ND	**N/A**	86	110	90	100	84	87	100	**N/A**	ND	ND	ND	ND	ND	ND	0.8
G0081	**N/A**	350	400	380	460	380	280	280	**N/A**	0.02	ND	ND	0.44	0.33	0.71	0.04	**N/A**	66	57	85	50	120	190	140	**N/A**	ND	ND	ND	ND	ND	ND	ND
G0082	**N/A**	290	300	330	290	230	260	370	**N/A**	ND	0.04	0.41	ND	0.15	0.10	ND	**N/A**	50	93	120	120	82	130	99	**N/A**	ND	ND	ND	ND	ND	ND	ND
G0088	**N/A**	230	260	290	290	320	280	300	**N/A**	0.05	0.26	0.01	ND	ND	0.28	ND	**N/A**	140	130	140	140	210	190	260	**N/A**	ND	ND	ND	ND	ND	0.8	ND
G0089	**N/A**	300	380	360	390	380	330	370	**N/A**	ND	0.19	0.27	ND	0.41	0.41	0.11	**N/A**	72	66	72	69	83	110	100	**N/A**	ND	ND	ND	ND	ND	0.8	ND
G0090	**N/A**	320	270	330	300	310	280	310	**N/A**	ND	0.09	ND	ND	0.03	1.22	0.85	**N/A**	60	75	110	110	130	120	150	**N/A**	ND	ND	ND	ND	ND	ND	ND
Intermediate Wells in RAO Treatment Areas																																
G0045	**391**	390	410	420	410	440	420	470	**0.15**	ND	0.67	ND	1.08	0.20	0.90	0.65	**695**	1100	1100	1100	1100	1000	1200	1300	**ND**	ND	ND	ND	ND	ND	ND	0.8
G0049	**242**	350	300	340	310	300	290	310	**0.11**	0.75	0.54	1	3.11	0.74	1.15	0.81	**87**	150	260	220	320	320	370	400	**0.20**	2.1	ND	ND	0.8	ND	ND	0.8
G0076	**232**	250	300	320	340	330	320	370	**0.71**	1.00	1.11	1.11	1.03	1.85	0.25	2.42	**56**	170	210	240	290	280	310	320	**ND**	ND	ND	ND	ND	ND	ND	ND

Notes:

Dry = well could not be sample due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbo
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	pH								Specific Conductance (mS/cm)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Areas																
G0017	**7.10**	7.24	6.86	7.01	7.14	6.97	7.08	7.21	**1.440**	1.689	0.999	1.230	1.470	1.436	1.610	1.850
G0022	**6.96**	6.72	6.39	6.81	6.49	6.78	7.25	6.68	**0.484**	0.635	0.698	0.782	0.646	0.824	0.862	0.940
G0023	**6.86**	6.15	6.24	6.38	6.28	5.96	6.45	6.39	**0.516**	1.015	0.737	0.965	0.750	0.798	0.882	0.857
G0048	**6.93**	Dry	Dry	Dry	5.90	5.40	6.13	6.35	**0.422**	Dry	Dry	Dry	0.645	0.449	0.969	0.671
G0066R	**6.89**	6.42	6.05	6.49	6.56	6.59	7.01	6.51	**0.710**	1.194	1.411	1.416	1.283	1.771	1.830	1.810
G0079	**6.99**	Dry	Dry	Dry	Dry	6.11	6.63	6.51	**0.532**	Dry	Dry	Dry	Dry	0.174	0.706	0.666
G0083	**N/A**	6.72	6.77	6.83	6.45	6.53	6.67	6.71	**N/A**	0.996	0.755	1.128	0.949	0.982	1.500	1.319
G0084	**N/A**	6.43	6.00	6.51	6.44	6.67	6.97	6.54	**N/A**	0.780	0.932	0.808	0.696	0.905	0.975	1.060
G0085	**N/A**	5.74	6.44	6.61	6.53	6.80	7.06	6.94	**N/A**	1.294	0.702	0.982	0.924	1.247	1.170	1.195
G0093	**N/A**	6.43	5.98	6.07	6.27	6.53	6.46	6.60	**N/A**	0.655	0.404	0.655	0.575	0.765	1.060	0.800
G0094	**N/A**	5.97	5.92	6.05	6.01	6.29	6.04	6.13	**N/A**	0.519	0.438	0.739	0.576	0.782	0.791	1.080
G0095	**N/A**	6.48	6.54	6.42	6.38	6.34	6.76	6.73	**N/A**	1.096	1.017	1.268	1.489	1.512	1.800	2.260
G0096	**N/A**	6.50	6.53	6.57	6.57	7.04	6.72	6.29	**N/A**	0.533	0.713	0.769	0.545	0.797	1.040	1.230
G0097	**N/A**	5.78	5.78	5.69	6.20	6.25	6.82	6.26	**N/A**	1.424	0.903	1.006	1.343	1.679	2.180	1.425
G0098	**N/A**	5.96	6.14	6.22	6.33	5.64	6.69	6.18	**N/A**	0.707	0.499	0.835	0.752	0.495	0.913	1.057
G0099	**N/A**	6.13	5.95	6.31	6.12	5.61	6.67	6.34	**N/A**	0.645	0.465	0.599	0.487	0.593	0.762	0.767
G0100	**N/A**	6.46	6.28	6.31	6.48	6.19	6.52	6.55	**N/A**	1.297	1.013	1.173	1.337	1.385	1.910	2.000
G0101	**N/A**	6.79	6.62	6.42	6.62	6.46	6.75	6.64	**N/A**	1.316	1.693	2.105	1.906	1.560	2.590	2.340
G0102	**N/A**	7.04	6.90	6.90	6.81	6.81	7.00	6.70	**N/A**	2.545	1.717	2.628	2.324	2.361	2.740	2.530
G0103	**N/A**	6.00	5.93	5.79	6.27	6.43	6.82	6.75	**N/A**	2.430	1.528	2.002	2.185	2.145	2.470	2.560
G0104	**N/A**	6.73	6.82	6.91	6.93	6.79	6.96	6.90	**N/A**	2.542	1.725	2.138	2.452	2.338	2.590	2.220
G0105	**N/A**	6.98	7.05	6.83	7.06	6.65	7.46	6.96	**N/A**	2.673	2.184	2.542	2.295	2.363	2.300	2.450
G0106	**N/A**	7.24	7.07	6.76	7.01	6.68	7.36	6.90	**N/A**	2.303	1.999	2.119	2.489	2.283	2.110	2.460
G0107	**N/A**	6.90	6.95	6.89	7.00	6.54	7.32	6.95	**N/A**	2.512	2.081	2.529	2.540	2.315	2.260	2.480
G0108	**N/A**	5.75	6.13	6.17	6.20	6.30	6.18	6.56	**N/A**	1.078	0.819	1.018	0.796	0.837	0.849	1.167
G0109	**N/A**	6.31	6.25	6.32	6.59	6.24	7.31	6.86	**N/A**	0.622	0.456	0.677	0.599	0.623	0.742	0.735
G0110	**N/A**	6.01	6.12	6.28	6.13	6.12	6.26	6.30	**N/A**	0.953	0.745	1.226	0.992	0.900	1.330	1.405
G0111	**N/A**	6.50	6.22	6.44	6.52	6.37	7.06	6.38	**N/A**	1.339	1.012	1.177	1.239	1.465	1.620	2.130
G0112	**N/A**	6.26	6.28	6.50	6.29	6.54	6.59	6.64	**N/A**	0.630	0.598	0.588	0.563	0.611	0.735	0.778
G0113	**N/A**	5.23	6.45	6.31	6.23	6.46	6.12	6.40	**N/A**	1.984	1.299	0.807	0.593	0.693	0.677	0.820
G0114	**N/A**	6.22	6.37	6.27	6.20	6.12	6.63	6.34	**N/A**	0.779	0.527	0.688	0.523	0.541	0.666	0.701
G0115	**N/A**	6.49	6.54	6.39	6.25	6.34	6.80	6.57	**N/A**	1.682	1.351	1.614	1.453	1.959	1.790	2.280
G0116	**N/A**	5.18	5.13	6.27	6.33	6.47	6.96	6.57	**N/A**	2.400	1.610	1.795	1.691	1.929	1.830	2.380
G0117	**N/A**	6.38	6.38	6.44	6.60	6.29	6.83	6.57	**N/A**	1.916	1.605	2.328	2.086	1.736	2.160	2.220
G0118	**N/A**	5.77	6.32	6.33	6.20	6.11	6.43	6.13	**N/A**	1.186	1.200	2.015	1.369	1.373	1.930	1.557
G0119	**N/A**	6.75	6.38	6.73	6.83	6.72	7.32	7.00	**N/A**	1.557	1.703	1.846	1.773	1.690	1.920	1.990
G0120	**N/A**	6.31	6.21	6.41	6.55	6.51	6.52	NS	**N/A**	1.995	1.869	2.060	1.836	1.912	2.320	NS
G0121	**N/A**	N/A	N/A	6.35	6.46	6.52	6.86	5.59	**N/A**	N/A	N/A	1.520	1.836	1.446	1.770	2.330
G0122	**N/A**	N/A	N/A	N/A	N/A	N/A	7.01	6.69	**N/A**	N/A	N/A	N/A	N/A	N/A	2.340	2.440
G0123	**N/A**	N/A	N/A	N/A	N/A	N/A	6.85	6.40	**N/A**	N/A	N/A	N/A	N/A	N/A	1.860	1.880
PZ001	**7.19**	7.07	7.13	7.11	6.96	6.99	7.16	7.26	**1.976**	2.939	2.282	2.838	2.507	2.641	2.510	2.676
PZ004	**7.14**	7.00	7.08	6.90	6.92	6.80	6.60	7.19	**1.888**	2.673	2.147	2.843	2.327	2.680	2.260	2.532
PZ010	**7.19**	6.99	6.57	6.89	6.85	6.40	6.76	6.89	**1.032**	1.409	0.849	1.573	1.688	0.942	1.880	1.980
PZ011	**7.09**	6.20	6.32	6.42	6.05	6.53	7.00	6.52	**0.931**	2.027	1.381	1.960	1.607	1.863	1.940	2.100
PZ012	**7.09**	6.25	6.38	6.49	6.47	6.49	6.58	6.75	**0.779**	2.297	1.685	2.086	1.441	2.031	1.920	1.920
PZ013	**7.04**	6.38	6.41	6.29	6.48	6.32	6.50	6.80	**0.879**	1.911	1.737	2.374	2.042	1.479	2.200	2.040
PZ014	**7.14**	6.62	6.81	6.76	6.71	6.71	6.92	6.62	**0.847**	1.472	1.957	1.837	1.384	1.530	1.700	1.750
PZ015	**6.68**	6.20	6.21	6.11	6.38	5.95	6.30	6.18	**0.431**	0.787	0.494	0.651	0.547	0.704	0.843	0.633
PZ016	**6.88**	6.67	6.62	6.53	6.66	6.89	6.63	6.38	**0.471**	0.703	0.549	0.750	0.577	0.675	0.871	0.837
PZ017R	**6.84**	6.67	6.42	6.47	6.22	6.45	6.90	6.17	**0.568**	0.643	0.612	0.728	0.628	0.820	0.788	0.910
PZ018	**6.91**	6.70	6.55	6.47	6.37	6.45	6.46	5.96	**0.531**	0.733	0.653	0.706	0.599	0.822	0.590	0.870

Notes:

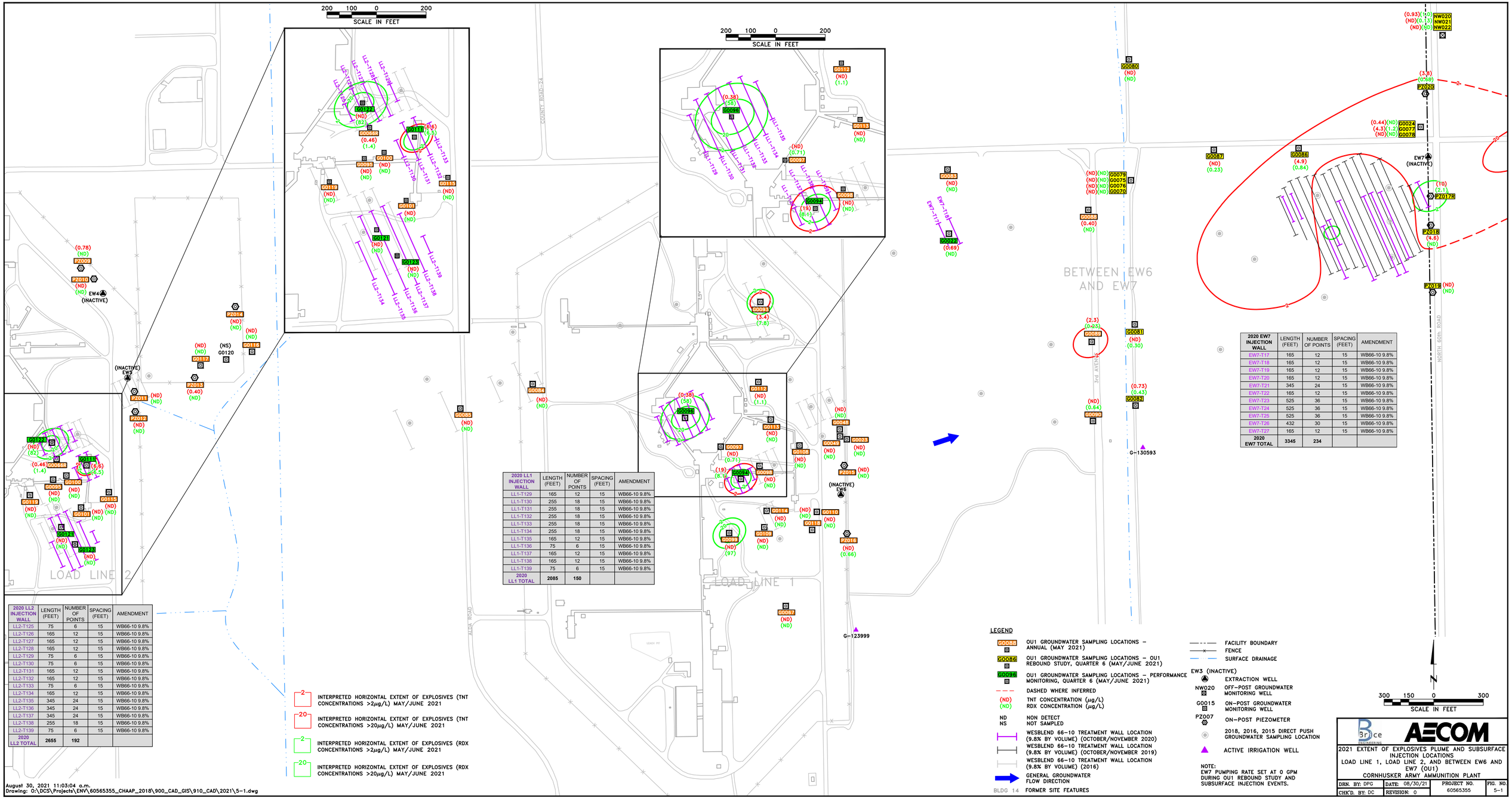
Dry = well could not be sample due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen

TABLE 5-7
SUMMARY OF OU1 ON-POST WATER QUALITY PARAMETERS, WELLS INSIDE RAO TREATMENT AREAS
2021 ANNUAL REPORT

Well Number	pH								Specific Conductance (mS/cm)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow-Intermediate Wells in RAO Treatment Areas																
G0075	**6.97**	6.54	6.48	6.51	6.60	6.52	6.83	6.68	**0.485**	0.731	0.624	0.727	0.650	0.757	0.987	0.900
G0080	**N/A**	6.82	6.65	6.58	6.58	6.67	6.70	6.51	**N/A**	0.706	0.517	0.645	0.583	0.610	0.884	0.701
G0081	**N/A**	6.44	6.49	6.46	6.00	6.11	6.43	6.38	**N/A**	0.881	0.707	0.879	0.711	0.659	1.020	0.780
G0082	**N/A**	6.42	6.56	6.50	6.26	6.21	6.47	6.24	**N/A**	0.701	0.587	0.799	0.695	0.488	0.858	0.860
G0088	**N/A**	6.86	6.89	6.80	6.90	6.94	7.17	6.83	**N/A**	0.836	0.637	0.744	0.675	0.858	0.950	0.990
G0089	**N/A**	6.54	6.43	6.49	6.20	6.32	6.81	6.23	**N/A**	0.799	0.676	0.816	0.749	0.916	0.915	0.820
G0090	**N/A**	6.61	6.65	6.52	6.21	6.58	6.29	6.43	**N/A**	0.821	0.532	0.808	0.684	0.730	0.913	0.860
Intermediate Wells in RAO Treatment Areas																
G0045	**7.16**	7.01	7.05	7.19	7.16	7.14	7.18	7.13	**2.132**	2.577	1.991	2.665	2.613	2.621	2.950	3.020
G0049	**7.12**	6.82	7.07	7.08	7.16	6.75	7.13	7.02	**0.613**	1.065	0.752	1.049	0.992	1.144	1.360	1.277
G0076	**7.23**	6.87	6.82	6.82	6.88	6.59	6.93	6.65	**0.551**	0.958	0.837	1.024	0.899	0.870	1.260	1.264

Notes:

Dry = well could not be sample due to lack of water.
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbo
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
PZ = piezometer
RAO = Remedial Action Operation
TKN = Total Kjeldahl Nitrogen



2020 LL2 INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
LL2-T125	75	6	15	WB66-10 9.8%
LL2-T126	165	12	15	WB66-10 9.8%
LL2-T127	165	12	15	WB66-10 9.8%
LL2-T128	165	12	15	WB66-10 9.8%
LL2-T129	75	6	15	WB66-10 9.8%
LL2-T130	75	6	15	WB66-10 9.8%
LL2-T131	165	12	15	WB66-10 9.8%
LL2-T132	165	12	15	WB66-10 9.8%
LL2-T133	75	6	15	WB66-10 9.8%
LL2-T134	165	12	15	WB66-10 9.8%
LL2-T135	345	24	15	WB66-10 9.8%
LL2-T136	345	24	15	WB66-10 9.8%
LL2-T137	345	24	15	WB66-10 9.8%
LL2-T138	255	18	15	WB66-10 9.8%
LL2-T139	75	6	15	WB66-10 9.8%
2020 LL2 TOTAL	2655	192		

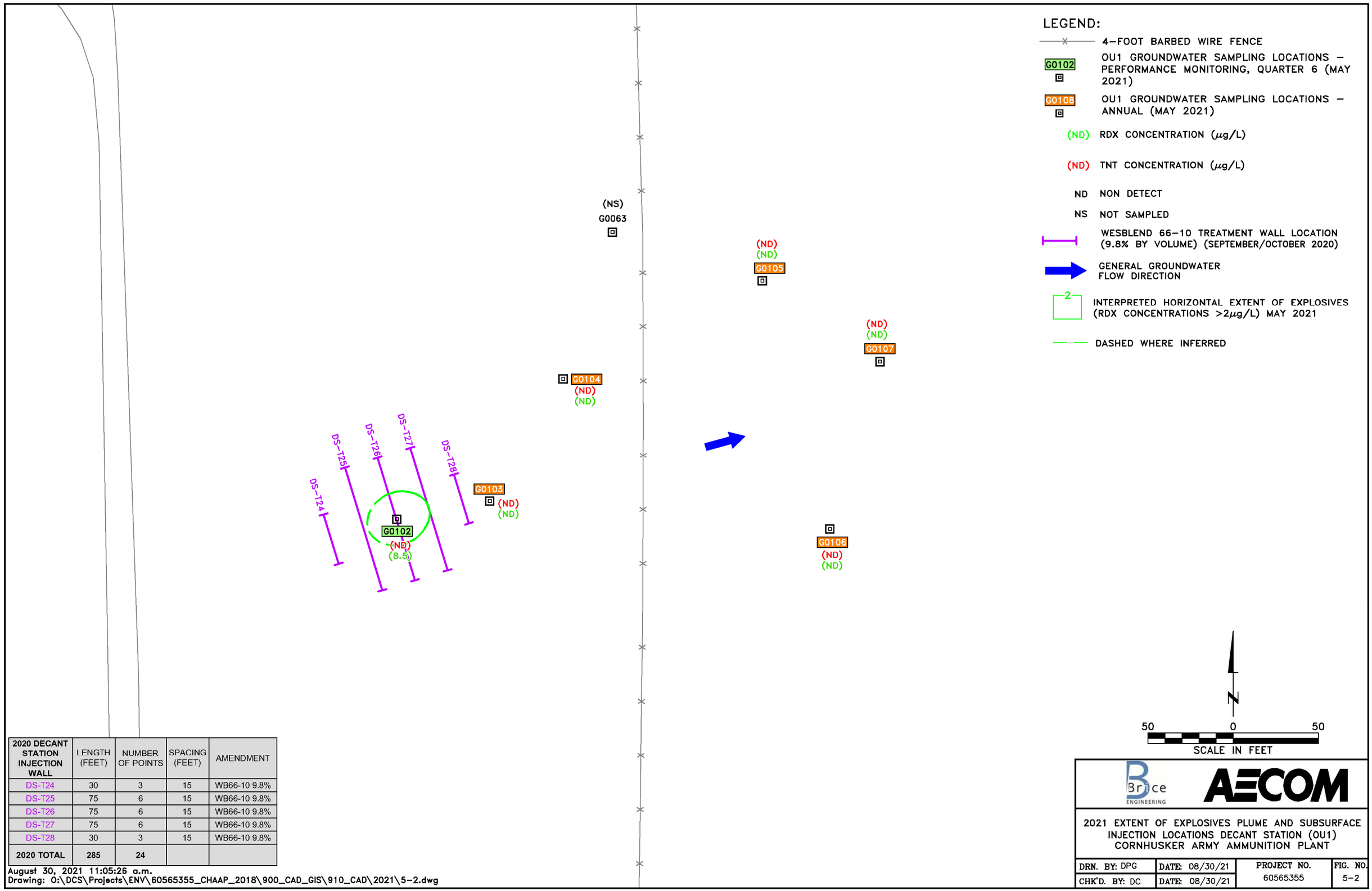
2020 LL1 INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
LL1-T129	165	12	15	WB66-10 9.8%
LL1-T130	255	18	15	WB66-10 9.8%
LL1-T131	255	18	15	WB66-10 9.8%
LL1-T132	255	18	15	WB66-10 9.8%
LL1-T133	255	18	15	WB66-10 9.8%
LL1-T134	255	18	15	WB66-10 9.8%
LL1-T135	165	12	15	WB66-10 9.8%
LL1-T136	75	6	15	WB66-10 9.8%
LL1-T137	165	12	15	WB66-10 9.8%
LL1-T138	165	12	15	WB66-10 9.8%
LL1-T139	75	6	15	WB66-10 9.8%
2020 LL1 TOTAL	2085	150		

2020 EW7 INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
EW7-T17	165	12	15	WB66-10 9.8%
EW7-T18	165	12	15	WB66-10 9.8%
EW7-T19	165	12	15	WB66-10 9.8%
EW7-T20	165	12	15	WB66-10 9.8%
EW7-T21	345	24	15	WB66-10 9.8%
EW7-T22	165	12	15	WB66-10 9.8%
EW7-T23	525	36	15	WB66-10 9.8%
EW7-T24	525	36	15	WB66-10 9.8%
EW7-T25	525	36	15	WB66-10 9.8%
EW7-T26	432	30	15	WB66-10 9.8%
EW7-T27	165	12	15	WB66-10 9.8%
2020 EW7 TOTAL	3345	234		

August 30, 2021 11:03:04 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\5-1.dwg

2021 EXTENT OF EXPLOSIVES PLUME AND SUBSURFACE INJECTION LOCATIONS
LOAD LINE 1, LOAD LINE 2, AND BETWEEN EW6 AND EW7 (OU1)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 5-1
CHK'D. BY: DC	REVISION: 0		



LEGEND:

- 4–FOOT BARBED WIRE FENCE
- G0102 — OU1 GROUNDWATER SAMPLING LOCATIONS – PERFORMANCE MONITORING, QUARTER 6 (MAY 2021)
- G0108 — OU1 GROUNDWATER SAMPLING LOCATIONS – ANNUAL (MAY 2021)
- (ND) RDX CONCENTRATION (µg/L)
- (ND) TNT CONCENTRATION (µg/L)
- ND NON DETECT
- NS NOT SAMPLED
- WESBLEND 66–10 TREATMENT WALL LOCATION (9.8% BY VOLUME) (SEPTEMBER/OCTOBER 2020)
- GENERAL GROUNDWATER FLOW DIRECTION
- 2 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) MAY 2021
- DASHED WHERE INFERRED

2020 DECANT STATION INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
DS-T24	30	3	15	WB66-10 9.8%
DS-T25	75	6	15	WB66-10 9.8%
DS-T26	75	6	15	WB66-10 9.8%
DS-T27	75	6	15	WB66-10 9.8%
DS-T28	30	3	15	WB66-10 9.8%
2020 TOTAL	285	24		

N

50 0 50

SCALE IN FEET

August 30, 2021 11:05:26 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\5-2.dwg

Bruce ENGINEERING AECOM

2021 EXTENT OF EXPLOSIVES PLUME AND SUBSURFACE INJECTION LOCATIONS DECANT STATION (OU1) CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 5-2
CHK'D. BY: DC	DATE: 08/30/21		

SANITARY LANDFILL

PISTOL RANGE

LOADLINE 5

SHOP AREA

NITRATE AREA

SOUTH

ADMIN

10 11 12 7 8 9 15 16 17 18 22 23 24 19 20 21

G0104, G0105, G0106, G0107
ND

G0063

G0102
RDX 8.5 J µg/L

G0103
ND

PZ009
1,3,5-TNB 1.5 µg/L
TNT 0.78 µg/L
2-Am-4,6-DNT 0.74 J µg/L
4-Am-2,6-DNT 0.72 µg/L

PZ005
ND

G0066R
1,3,5-TNB 1.2 J µg/L
TNT 0.46 µg/L
2,4-DNT 0.19 J µg/L
2-Am-4,6-DNT 1.4 J µg/L
4-Am-2,6-DNT 1.2 J µg/L
HMX 0.77 J µg/L
RDX 1.4 J µg/L

PZ001
HMX 0.3 J µg/L

PZ004
ND

G0044
HMX 0.21 µg/L

G0017
2-Am-4,6-DNT 0.07 J µg/L

G0045
ND

PZ007
ND

G0095
2-Am-4,6-DNT 0.55 µg/L
4-Am-2,6-DNT 0.36 J µg/L

G0119
ND

G0100
2,6-DNT 7.4 J µg/L

G0121
ND

G0111
1,3,5-TNB 4.6 µg/L
1,3-DNB 1.7 J µg/L
TNT 6.6 µg/L
2,4-DNT 0.44 µg/L
2-Am-4,6-DNT 4.9 µg/L
4-Am-2,6-DNT 6.8 µg/L
RDX 6.5 J µg/L

G0097
MNX 4.1 J µg/L
RDX 0.71 J µg/L

G0116
ND

PZ013
TNT 0.4 µg/L
2-Am-4,6-DNT 4.9 µg/L
4-Am-2,6-DNT 5.6 µg/L

PZ010
4-Am-2,6-DNT 1.5 J µg/L

G0122
HMX 9.6 J µg/L
RDX 82 J µg/L

G0123
HMX 19 J µg/L

G0101
ND

G0113
MNX 0.77 µg/L

G0096
TNT 0.38 J µg/L
2-Am-4,6-DNT 1.1 J µg/L
4-Am-2,6-DNT 1.7 J µg/L
HMX 39 µg/L
RDX 58 µg/L

PZ014
ND

G0117
ND

G0115
ND

G0120

G0084
ND

PZ012
ND

PZ011
4-Am-2,6-DNT 0.27 J µg/L

G0085
ND

G0094
TNT 19 J µg/L
2-Am-4,6-DNT 35 J µg/L
4-Am-2,6-DNT 39 J µg/L
Nitrobenzene 15 J µg/L
RDX 8.1 J µg/L

G0022
1,3,5-TNB 0.22 µg/L
TNT 0.69 µg/L
2-Am-4,6-DNT 1 µg/L
4-Am-2,6-DNT 0.7 µg/L

G0112
2-Am-4,6-DNT 0.14 J µg/L
4-Am-2,6-DNT 0.29 J µg/L
HMX 2.1 J µg/L
RDX 1.1 J µg/L

G0093
1,3,5-TNB 9.1 µg/L
TNT 3.4 µg/L
2-Am-4,6-DNT 2.5 J µg/L
4-Am-2,6-DNT 2.8 J µg/L
HMX 0.96 µg/L
RDX 7.8 µg/L

G0099
HMX 1.3 µg/L
MNX 0.98 J µg/L
RDX 97 µg/L

G0109
HMX 3.5 µg/L

G0098
Nitrobenzene 0.52 µg/L

G0114
ND

G0067
ND

G0108
ND

G0083
ND

G0080*
ND

G0070, G0076, G0079*
ND

G0075*
2-Am-4,6-DNT 0.75 µg/L
4-Am-2,6-DNT 0.67 µg/L
HMX 2 J µg/L

G0088
1,3,5-TNB 3.6 J µg/L
TNT 0.4 J µg/L
2-Am-4,6-DNT 0.21 J µg/L
4-Am-2,6-DNT 0.22 J µg/L

G0023
ND

G0048
ND

G0049
ND

PZ015
1,3,5-TNB 0.18 J µg/L

PZ016
2-Am-4,6-DNT 0.58 J µg/L
4-Am-2,6-DNT 0.96 µg/L
HMX 1.2 µg/L
RDX 0.66 µg/L

G0110
ND

G0118
Nitrobenzene 0.88 J µg/L

G0090
2-Am-4,6-DNT 0.095 J µg/L
HMX 0.62 µg/L
RDX 0.64 µg/L

G0087*
2-Am-4,6-DNT 0.22 µg/L
4-Am-2,6-DNT 0.7 µg/L
HMX 0.7 µg/L
RDX 0.23 µg/L

G0091*
2-Am-4,6-DNT 0.16 J µg/L
4-Am-2,6-DNT 0.17 J µg/L
HMX 0.3 µg/L
RDX 0.31 µg/L

G0092
ND

PZ020*
1,3,5-TNB 2.2 µg/L
TNT 3.8 µg/L
2-Am-4,6-DNT 2.5 µg/L
4-Am-2,6-DNT 2.7 µg/L
HMX 0.73 µg/L
RDX 0.68 J µg/L

G0024*
TNT 0.44 µg/L
2-Am-4,6-DNT 1.2 µg/L
4-Am-2,6-DNT 1.1 µg/L

G0077*
1,3,5-TNB 4.3 µg/L
TNT 4.3 µg/L
2,4-DNT 0.06 J µg/L
2-Am-4,6-DNT 2.5 µg/L
4-Am-2,6-DNT 2.5 µg/L
HMX 0.57 µg/L
RDX 1.2 J µg/L

G0078
ND

PZ019
ND

G0086*
1,3,5-TNB 14 J µg/L
TNT 4.9 J µg/L
2,4-DNT 0.05 J µg/L
2-Am-4,6-DNT 1.4 J µg/L
4-Am-2,6-DNT 1.1 J µg/L
HMX 0.44 J µg/L
RDX 0.84 J µg/L

G0081*
2-Am-4,6-DNT 0.08 J µg/L
HMX 0.42 µg/L
RDX 0.3 µg/L

G0089*
1,3,5-TNB 3.1 µg/L
TNT 2.3 µg/L
2-Am-4,6-DNT 0.85 µg/L
4-Am-2,6-DNT 1.1 µg/L
RDX 0.23 J µg/L

G0082*
1,3,5-TNB 3.9 µg/L
TNT 0.73 µg/L
2-Am-4,6-DNT 0.55 µg/L
4-Am-2,6-DNT 0.88 µg/L
RDX 0.43 µg/L

PZ017R*
1,3,5-TNB 1.1 µg/L
TNT 10 µg/L
2,6-DNT 0.36 J µg/L
2-Am-4,6-DNT 3 µg/L
4-Am-2,6-DNT 2.7 J µg/L
HMX 1.6 J µg/L
RDX 2.1 µg/L

PZ018*
TNT 4.6 µg/L
2-Am-4,6-DNT 2.5 µg/L
4-Am-2,6-DNT 4.9 J µg/L

0 2000 4000
SCALE FEET

LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- PZ016 EXPLOSIVES GROUNDWATER SAMPLING RESULTS – MAY/JUNE 2021
- * WELLS USED FOR MANN-KENDALL ANALYSIS
- 2 HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >20µg/L) – MAY/JUNE 2021
- 2 HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) – MAY/JUNE 2021

1,3,5-TNB = 1,3,5-TRINITROBENZENE
2-AM-4,6-DNT = 2-AMINO-4,6-DINITROTOLUENE
2,4,6-TNT = 2,4,6-TRINITROTOLUENE
1,3-DNB = 1,3-DINITROBENZENE
2,4-DNT = 2,4-DINITROTOLUENE
4-NT = 4-NITROTOLUNE
4-AM-4,6-DNT = 4-AMINO-2,6-DINITROTOLUENE
HMX = OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE
J = ESTIMATED QUALIFIER
MNX = MONO-NITROSO-RDX
ND = NONDETECT
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

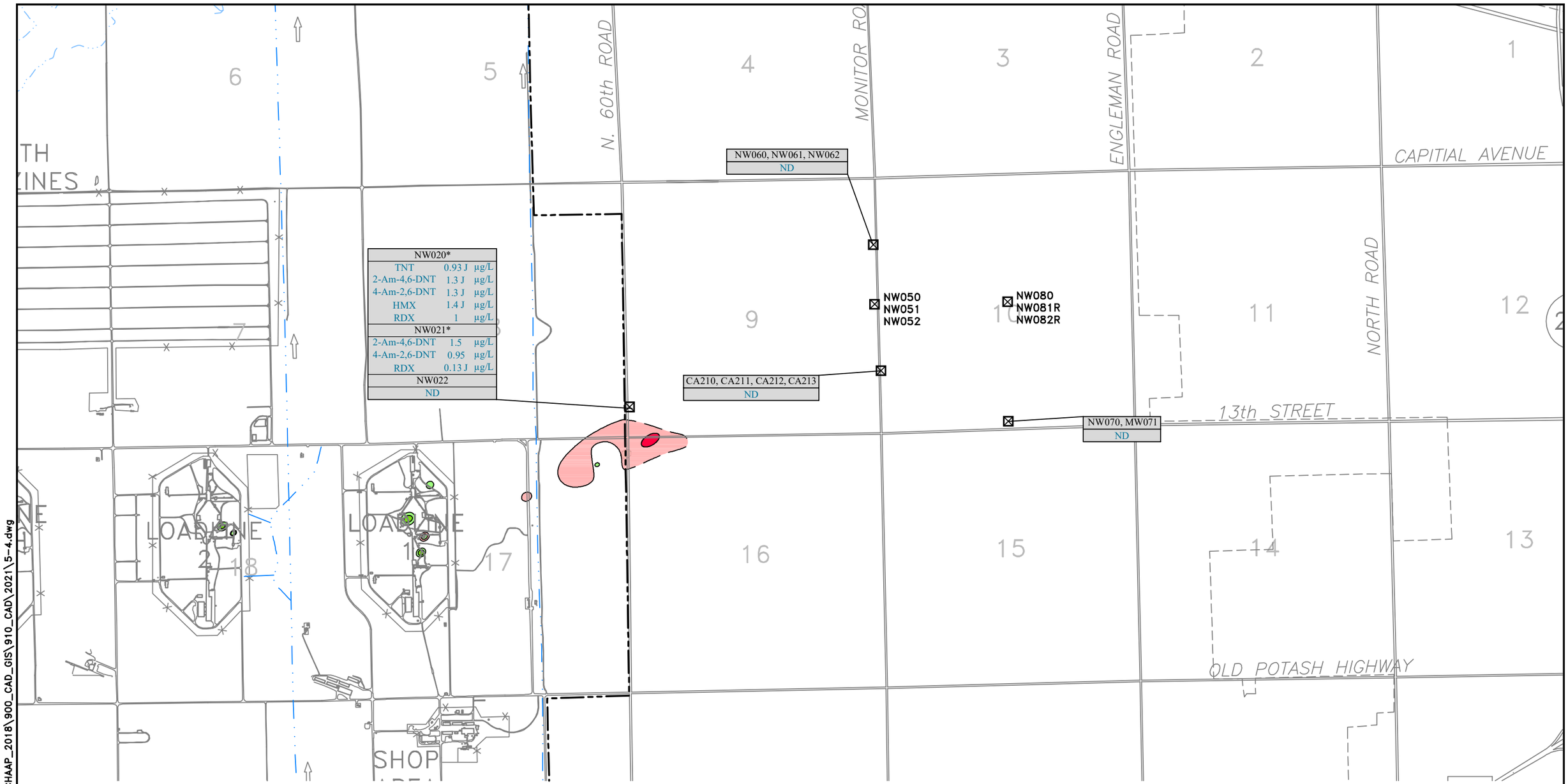
NOTE:
EXPLOSIVES PLUME BASED ON 2021 SAMPLING RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

Bruce ENGINEERING AECOM

ON-POST EXPLOSIVES CONCENTRATIONS
(OU1) MAY/JUNE 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 5-3
CHK'D. BY: DC	DATE: 08/30/21		

October 18, 2021 10:14:17 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\5-3.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- PZ016 — EXPLOSIVES GROUNDWATER SAMPLING RESULTS – MAY 2021
- * — WELLS USED FOR MANN-KENDALL ANALYSIS
- 2 — HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 — HORIZONTAL EXTENT OF TARGET EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >20µg/L) – MAY/JUNE 2021
- 2 — HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 — HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) – MAY/JUNE 2021

2-AM-4,6-DNT = 2-AMINO-4,6-DINITROTOLUENE
2,4,6-TNT = 2,4,6-TRINITROTOLUENE
4-AM-4,6-DNT = 4-AMINO-2,6-DINITROTOLUENE
4-NT = 4-NITROTOLUENE
J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE: EXPLOSIVES PLUME BASED ON 2021 SAMPLING RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

N

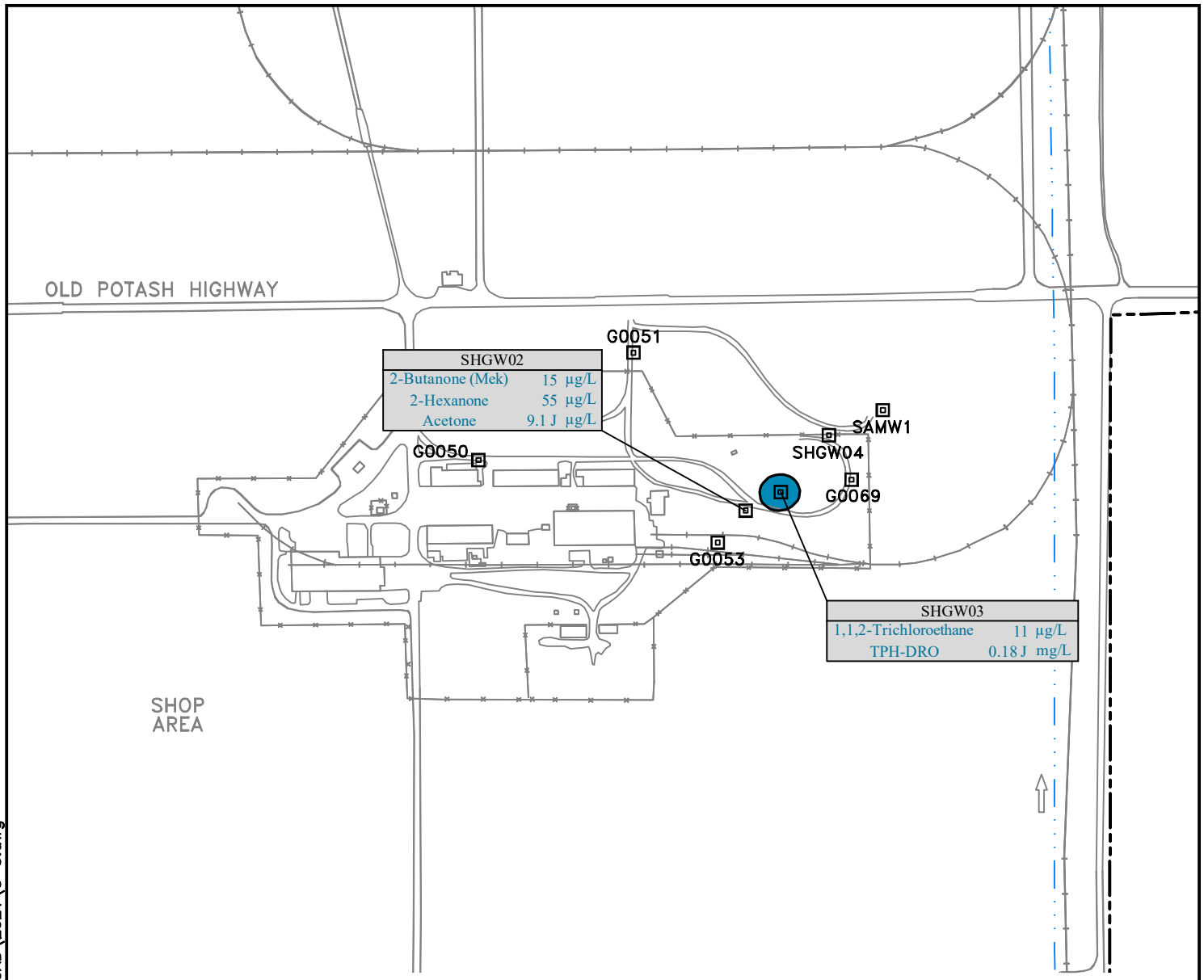
0 2000 4000
SCALE FEET

Bruce ENGINEERING AECOM

OFF-POST EXPLOSIVES CONCENTRATIONS (OU1) MAY/JUNE 2021 CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 5-4
CHK'D. BY: DC	DATE: 08/30/21		

October 18, 2021 10:15:35 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\5-4.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCLs (1,1,2-TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SHGW02 — VOC GROUNDWATER SAMPLING RESULTS – MAY 2021

1,1,2-TCA = 1,1,2-TRICHLORETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH-DRO = TOTAL PETROLEUM HYDROCARBON-DIESEL RANGE ORGANICS

N

0 500 1000

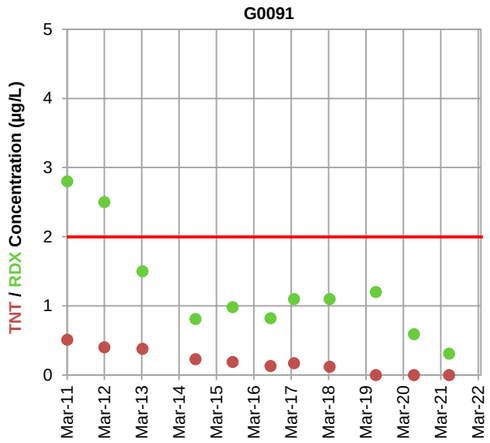
SCALE FEET

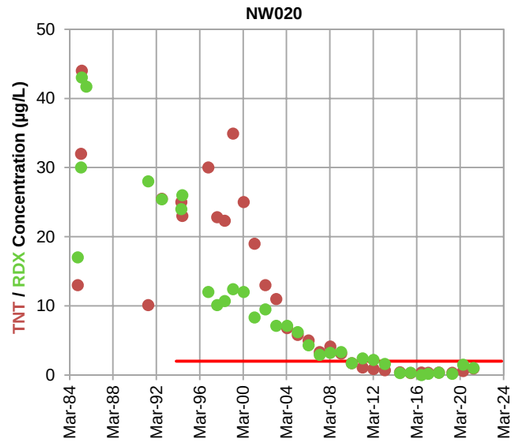
Brice ENGINEERING AECOM

VOC CONCENTRATIONS
SHOP AREA (OU3) MAY 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 5-5
CHK'D. BY: DC	DATE: 08/30/21		

August 30, 2021 3:19:17 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\5-5.dwg





Nonparametric Trend Analysis for TNT and RDX

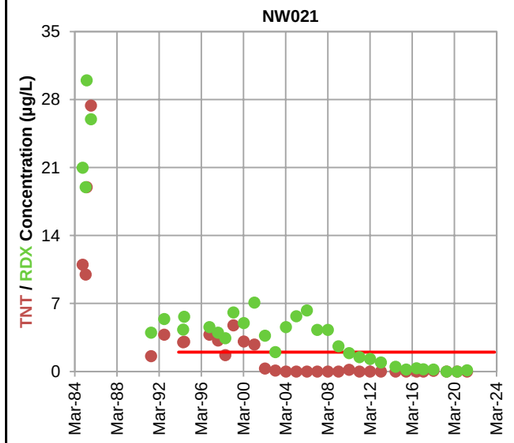
Well	Detect	Non-detect	Total Samples	Detection Frequency	Min (µg/L)	Max (µg/L)	Mean (µg/L)	Median (µg/L)	MK Result	Trend
G0091	8 / 11	3 / 0	11 / 11	73% / 100%	ND / 0.31	0.51 / 2.8	0.19 / 1.3	0.17 / 1.1	100% / 98%	D / D
NW020	34 / 33	0 / 1	34 / 34	100% / 97%	0.29 / ND	53 / 43	13 / 10	6.3 / 6.7	100% / 100%	D / D
NW021	18 / 32	16 / 2	34 / 34	53% / 94%	ND / ND	27 / 30	2.9 / 5.5	0.10 / 4.0	100% / 100%	D / D
PZ020	21 / 19	0 / 2	21 / 21	100% / 90%	2.2 / ND	85 / 13	14 / 3.3	5.9 / 2.3	100% / 100%	D / D
G0024	41 / 41	8 / 8	49 / 49	84% / 84%	ND / ND	323 / 180	14 / 23	4.7 / 6.4	100% / 100%	D / D
G0077	24 / 24	0 / 0	24 / 24	100% / 100%	2.2 / 0.46	800 / 55	93 / 9.0	14 / 4.1	100% / 100%	D / D
EW7*	20 / 20	0 / 0	20 / 20	100% / 100%	5.7 / 0.33	137 / 39	41 / 11	27 / 5.55	100% / 100%	D / D
PZ017R	20 / 20	0 / 0	20 / 20	100% / 100%	10 / 1	100 / 120	49 / 36	32 / 9.7	100% / 100%	D / D
PZ018	20 / 20	1 / 1	21 / 21	95% / 95%	ND / ND	100 / 69	32 / 24	19 / 6.2	100% / 100%	D / D

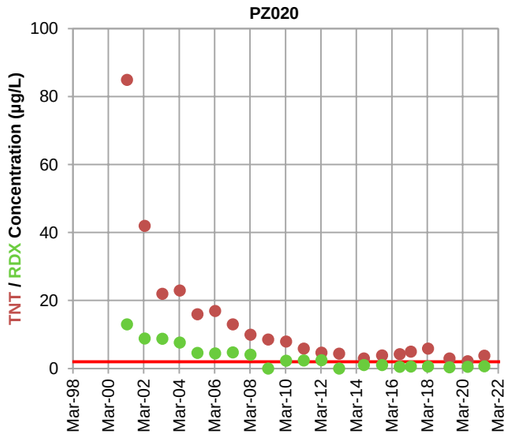
Notes:

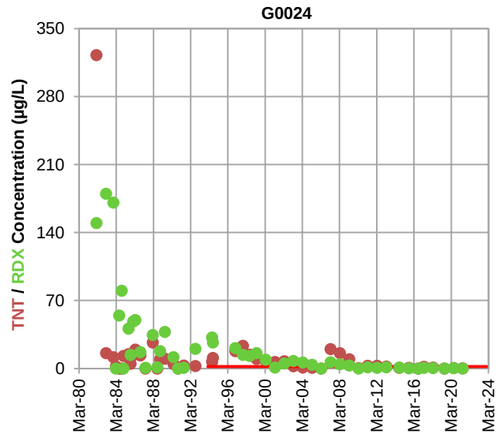
Trend analysis performed using Mann-Kendall test at 0.05 significance level. *EW7 sampling temporarily discontinued in 2019.

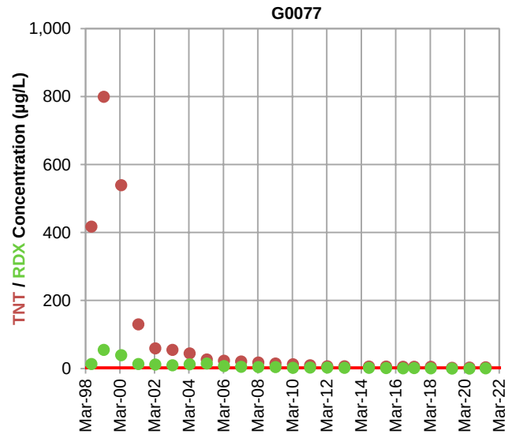
µg/L = micrograms per liter MK = Mann-Kendall PD = probably decreasing — = HAL (1994) TNT/RDX

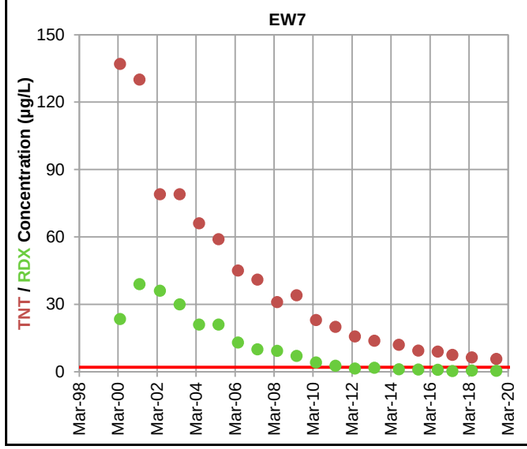
D = decreasing RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine TNT = 2,4,6-trinitrotoluene ND = nondetect

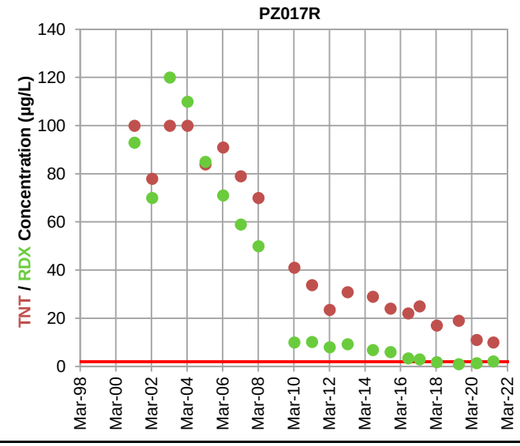


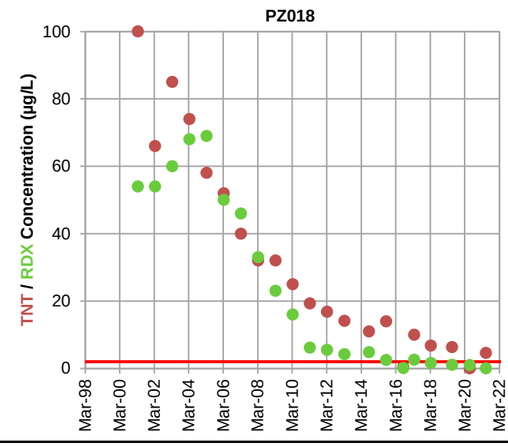








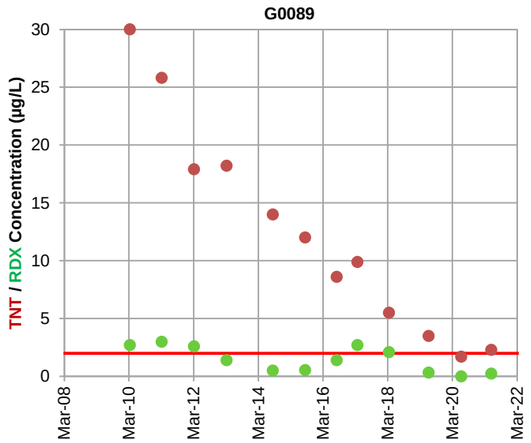


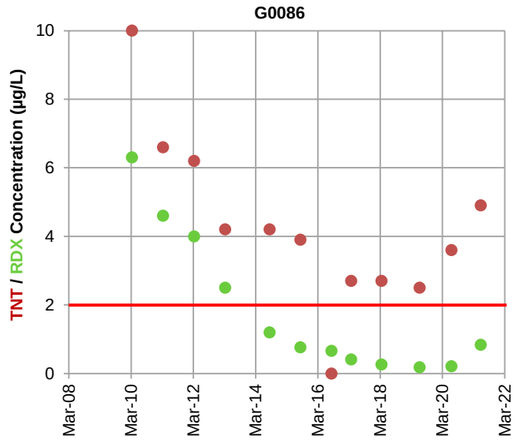


Bruce ENGINEERING AECOM

Mann-Kendall Analysis for TNT and RDX
Former Facility Boundary Wells (OU1)
Cornhusker Army Ammunition Plant

Drawn By:	Date:	
KW	12/30/2019	**Figure 5-6**
Checked By:	Project No.:	
DC	60565355	





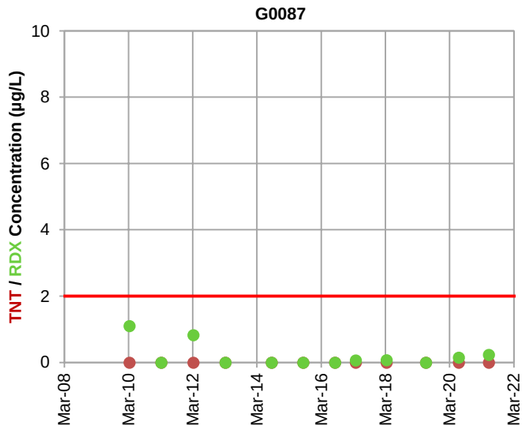
Nonparametric Trend Analysis for TNT and RDX

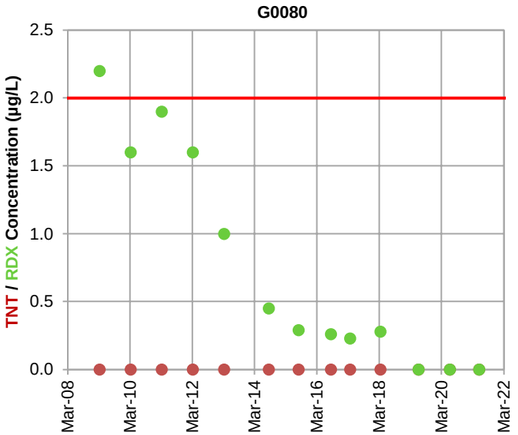
Well	Detect	Non-detect	Total Samples	Detection Frequency	Min (µg/L)	Max (µg/L)	Mean (µg/L)	Median (µg/L)	MK Result	Trend
G0089	12 / 11	0 / 1	12 / 12	100% / 92%	1.7 / ND	30 / 3.0	13 / 1.5	11 / 1.4	100% / 99.3%	D / D
G0086	11 / 12	1 / 0	12 / 12	92% / 100%	ND / 0.18	10 / 6.3	4.3 / 1.8	4.1 / 0.80	99.0% / 100%	D / D
G0087	0 / 6	12 / 6	12 / 12	0% / 50%	ND / ND	ND / 1.1	ND / 0.20	ND / 0.03	97.8% / 84.5%	ND / NT
G0080	0 / 10	13 / 3	13 / 13	0% / 77%	ND / ND	ND / 2.2	ND / 0.75	ND / 0.29	97.5% / 100%	ND / D
G0079	0 / 3	10 / 7	10 / 10	0% / 30%	ND / ND	ND / 15	ND / 1.8	ND / ND	98.2% / 99.2%	ND / D
G0075	10 / 20	14 / 4	24 / 24	42% / 83%	ND / ND	12 / 14	1.9 / 4.7	ND / 2.1	100% / 100%	D / D
G0081	10 / 11	3 / 2	13 / 13	77% / 85%	ND / ND	43 / 3.3	12 / 0.90	5.6 / 0.83	100% / 100%	D / D
G0082	9 / 13	4 / 0	13 / 13	69% / 100%	ND / 0.34	1.4 / 16	0.51 / 4.3	0.50 / 3.3	99.7% / 99.9%	D / D

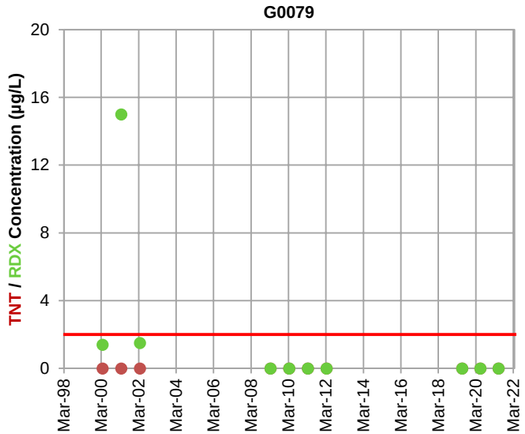
Notes:

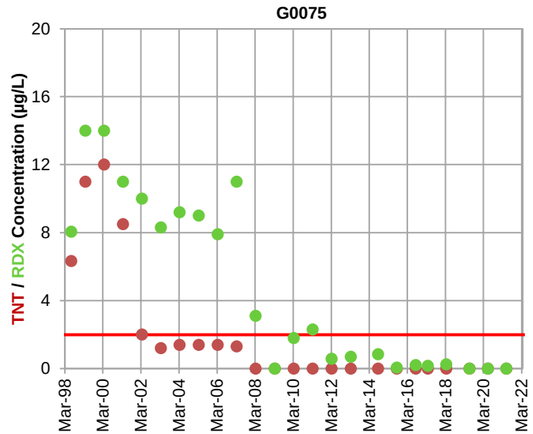
Trend analysis performed using Mann-Kendall test at 0.05 significance level.

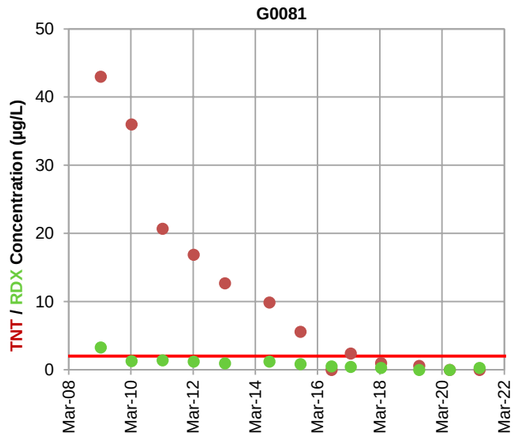
µg/L = micrograms per liter
ND = nondetect
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
D = decreasing
NT = no trend
TNT = 2,4,6-trinitrotoluene
MK = Mann-Kendall
= HAL (1994) TNT/RDX

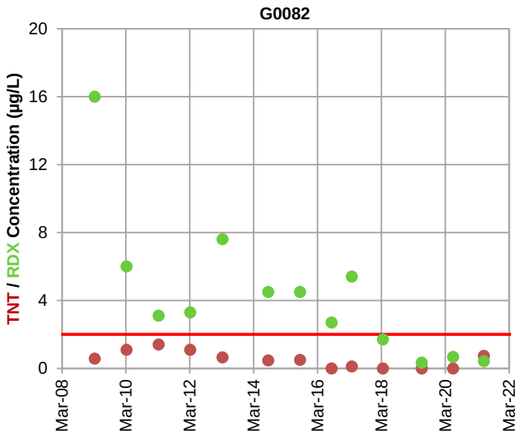












Brice ENGINEERING

AECOM

Mann-Kendall Analysis for TNT and RDX
Upgradient Wells (OU1)
Cornhusker Army Ammunition Plant

Drawn By:	Date:	
DC	7/13/2021	**Figure 5-7**
Checked By:	Project No.:	
JO	60565355	

This section evaluates the MNA remedy at OU1 off-post explosives plume and OU3 Shop Area 1,1,2-TCA plume for May 2021. For evaluation of on-post degradation as a result of subsurface injections please refer to **Section 5.5** and the most recent Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

USEPA describes MNA as "the reliance on natural attenuation processes to achieve site-specific remediation objectives within a time frame that is reasonable." The natural attenuation processes are further described as "a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil or groundwater." The mechanisms by which natural attenuation may be achieved include "biodegradation; dispersion; dilution; sorption; volatilization; radioactive decay; and chemical or biological stabilization, transformation, or destruction of contaminants" (USEPA 1999).

6.1 NATURAL ATTENUATION EVALUATION METHODOLOGY

The natural attenuation evaluation at CHAAP is being implemented in accordance with the protocols presented in the USEPA Office of Solid Waste and Emergency Response (OSWER) Directive "Use of Monitored Natural Attenuation at Superfund, RCRA, Corrective Action, and Underground Storage Tank Sites" (USEPA 1999) and "Draft Protocol for Evaluating, Selecting, and Implementing Monitored Natural Attenuation at Explosives-Contaminated Sites" (USACE Waterways Experiment Station [USACE WES] 1999).

Natural attenuation can be an effective remedial option for contaminants in groundwater at CHAAP if it can be demonstrated that attenuation processes are occurring at a rate sufficient to protect human health and the environment. Institutional controls are in effect at CHAAP to protect human health and the environment until contaminant concentrations throughout the plume areas are at or below the cleanup levels (HALs and MCLs). Institutional controls are discussed in **Section 8** of this report. There are three lines of evidence that may be used to support remediation through the use of MNA (USEPA 1999). The first is historical data that demonstrate decreasing contaminant mass or concentration over time. The second is hydrogeologic and geochemical data that indirectly demonstrate that natural attenuation processes are occurring at the site. The third is data from field or laboratory studies that directly demonstrate the presence of specific natural attenuation processes at the site. Evaluation of the MNA remedy at CHAAP entails the collection of data to support all three lines of evidence. The natural attenuation demonstration at CHAAP includes:

- Completing long-term groundwater monitoring in support of natural attenuation by monitoring key natural attenuation water quality parameters and explosives concentrations over time.
- Identifying significant natural attenuation processes occurring at the site, especially those processes that may be facilitating anaerobic degradation of both the OU1 explosives plume and the OU3 VOC plume.

A thorough knowledge of site characteristics is required to fully evaluate the potential for remediation through MNA. The site characteristics must be carefully analyzed to develop a conceptual model of the geochemical and microbiological processes that may be occurring. Site characterization data collected at CHAAP to evaluate MNA include:

- Topography and geology
- Sorption–desorption rates
- Hydraulic conductivity of the aquifer(s)
- Depth to groundwater, groundwater gradients, direction of flow, flow rate, and recharge rate
- Contaminant composition, location, and concentration, as well as the total mass of contaminant present
- Physical and chemical properties of contaminants including degradation products
- Groundwater quality parameters
  - Temperature
  - pH
  - DOC
  - ORP
  - Conductivity
  - Alkalinity
- Microbial respiratory parameters
  - DO
  - Nitrate/Nitrite, TKN, and Ammonia
  - Fe^{2+}
  - Sulfate/Sulfide
  - Methane
  - CO_2

Groundwater quality parameters and microbial respiratory parameters are monitored for evidence of microbiological activity in the subsurface. Indirect evidence of microbial respiration may be observed by comparing the concentrations of respiratory substrates and respiratory products inside the contaminated area with the concentrations from areas outside the contaminated area and over time. Microbial degradation processes proceed in an order of preference based on the amount of energy yielded by the reaction. The preference, in decreasing order, is for denitrification, Fe^{3+} reduction to Fe^{2+}, sulfate reduction, and methanogenesis (Bouwer 1994). CO_2 is produced through mineralization of the contaminants, regardless of the respiratory substrate used. Increased levels of CO_2 may also lead to increased alkalinity concentrations in groundwater that is undergoing biodegradation. Because Fe^{3+} is insoluble, groundwater is monitored for increased levels of Fe^{2+}.

During methanogenesis, CO_2 is used as the terminal electron acceptor for microbial respiration. Concentrations of other respiratory substrates should generally decrease in groundwater that is undergoing microbial degradation activity. For anaerobic biodegradation, DO concentrations should be depressed and ORP should change from positive to negative in groundwater within and immediately downgradient of the plume. For anaerobic microbial activity, respiratory substrates such as nitrate and sulfate should trend toward lower concentrations while concentrations of respiratory products such as Fe^{2+}, sulfide, and methane should generally increase. According to the USACE WES (USACE WES 1999), ORP values of 0 to –150, DO concentrations < 1.0 mg/L, sulfate concentrations < 20 mg/L, and DOC concentrations > 20 mg/L are favorable for anaerobic biodegradation of TNT. RDX is quickly mineralized under highly anaerobic conditions.

6.2 NATURAL ATTENUATION WATER QUALITY PARAMETER RESULTS

Tables 6-1 and **6-2** present key MNA water quality parameter data collected in May 2021 and previous years for the OU1 off-post and OU3 Shop Area wells, including field and laboratory parameters. From 2015 to 2019, the collection of laboratory water quality parameters for MNA at all OU1 off-post wells was discontinued as recommended and approved in the Final 2015 Annual Groundwater Monitoring and Subsurface Injection Report (BW-URS 2017a). As explosives concentrations are below project goals at off-post wells (since 2014), laboratory analysis of groundwater samples collected from OU1 off-post was limited to explosives compounds to document the presence/absence of rebounding concentrations. However, due to implementation of OU1 Rebound Study in October 2019, all off-post wells (including those that were returned to sampling activities for the OU1 Rebound Study) will resume laboratory MNA parameter analysis for evaluating MNA processes with EW7 temporarily shut down and the potential for on-post explosives to migrate downgradient to off-post.

Tables 6-1 and **6-2** show the MNA historical data for 2015 through 2021. **Table 6-2** presents data collected from OU3 monitoring wells in the treatment area. Pre-injection averages from 2001 to 2007 for MNA parameters for OU3 monitoring wells inside the RAO treatment areas are included in **Table 6-2**. Additionally, all 2021 OU1 on-post and off-post well laboratory MNA water quality parameter results are shown on **Figures 6-1a** through **6-1d**. The 2021 OU3 laboratory MNA water quality parameter results (shown on **Figure 6-2**) were used to help identify anaerobic degradation processes commonly occurring at groundwater contamination sites. These degradation processes are reported by both Wiedemeier, et al. (1996) and USACE WES (1999).

6.2.1 OU1 Off-Post (Groundwater Explosives Plume)

Off-post trends over the past seven annual groundwater sampling events are described in this section as part of the overall conceptual model of off-post conditions. Historic parameter readings for these wells are shown on **Table 6-1**. Although laboratory MNA parameters were not collected from select off-post wells between 2015 through 2019. The May 2021 data are evaluated against conditions known to be conducive for MNA and for possible changes in historic trends. General off-post data trends include:

- ORP values within the Grand Island Formation aquifer at OU1 off-post monitoring wells were generally lower at the base of the aquifer than at the water table and shallow-intermediate depths (**Table 6-1**). With only two exceptions at wells in the intermediate depth, all ORP values were greater than 120 mV.
  - ORP values in the shallow wells ranged from 137.0 mV at NW070 to 214.4 mV at NW060.
  - ORP values in the shallow-intermediate wells ranged from 148.3 mV at NW021 to 243.4 mV at NW061.
  - ORP values in the intermediate wells ranged from -56.9 mV at NW062 to 165.3 mV at NW071.
- DO concentrations within the Grand Island Formation aquifer at OU1 off-post monitoring wells generally decline with depth in the aquifer (**Table 6-1**). With a few exceptions, mostly in the shallow wells, off-post DO concentrations are below 1 mg/L.
  - DO concentrations in the shallow wells ranged from 0.06 mg/L at CA210 to 10.89 mg/L at NW060.
  - DO concentrations in the shallow-intermediate wells ranged from 0.29 mg/L at NW061 to 0.70 mg/L at CA211.
  - DO concentrations in the intermediate wells ranged from 0.03 mg/L at NW022 to 1.80 mg/L at NW071.
- Nitrate/nitrite concentrations within the Grand Island Formation aquifer at OU1 off-post wells are generally higher at shallow to shallow-intermediate locations than at deeper depths; however, there is considerable variability in concentrations within each depth (**Table 6-1**).
  - Nitrate/nitrite concentrations in the shallow wells ranged from 0.031 mg/L at NW070 to 59 mg/L at NW020.
  - Nitrate/nitrite concentrations in the shallow-intermediate wells ranged from 0.90 mg/L at NW021 to 32.0 mg/L at CA211.
  - Nitrate/nitrite concentrations in the intermediate wells ranged from nondetect at NW022 to 32.0 mg/L at NW071.
- Fe^{2+} concentrations within the Grand Island Formation aquifer at OU1 off-post monitoring wells remain less than 1 mg/L at all wells with no significant increases or decreases identified throughout the various depths (**Table 6-1**).
- Sulfate concentrations within the Grand Island Formation aquifer at OU1 off-post monitoring wells range from 9.4 mg/L to 250 mg/L. For wells in which there are historical sulfate data, concentrations have remained similar since 2015. Correspondingly, sulfide was nondetect at all but four OU1 off-post wells (**Table 6-1**).

- Methane concentrations within the Grand Island Formation aquifer at OU1 off-post wells remain low with all wells below 35 µg/L but one (430 µg/L at NW022), and five of which are nondetect (**Table 6-1**). However, the low number of methane detections is typically observed each year because methanogenesis is one of the last biodegradation processes to occur.

- DOC concentrations in OU1 off-post wells were all below 20 mg/L with the highest concentration of 15 mg/L at NW070. For wells in which there are historical DOC data, concentrations have remained similar since 2014.
- There is currently only one well within the deeper Holdrege Formation aquifer that is sampled, CA213 (**Table 6-1**).
  - ORP concentration is 106.5 mV
  - DO concentration is 0.33 mg/L
  - Nitrate/nitrite concentration is 1.50 mg/L
  - Fe^{2+} concentration is 0.60 mg/L
  - Sulfate concentration is 60.0 mg/L and sulfide is nondetect
  - Methane concentration was nondetect
  - DOC concentration is 2.00 mg/L

6.2.2 OU3 (Shop Area)

Natural attenuation trends at OU3 over the past seven annual post-injection groundwater sampling events are described in this section as part of the overall conceptual model of OU3 conditions (**Table 6-2**). Of the six OU3 wells, two are within the treatment area and the remaining four are outside of the treatment area (**Figure 6-2**). Beginning in 2014, only the two wells with historic VOC concentrations detected above MCLs and located within the treatment area (SHGW02 and SHGW03) are sampled annually. The remaining four wells, with no historic MCL exceedances, were placed on a three-year sampling frequency (last sampled in 2019 and are scheduled to be sampled again in 2022). General OU3 data trends at SHGW02 and SHGW03 include:

- ORP values at wells SHGW02 and SHGW03 were -110.0 mV and 113.7 mV, respectively (**Table 6-2**). ORP at SHGW02 is negative and conducive to biodegradation, whereas ORP at SHGW03 is positive and indicates an environment less conducive to biodegradation.
- DO concentrations at wells SHGW02 and SHGW03 were 0.02 mg/L and 1.05 mg/L, respectively (**Table 6-2**). The DO concentrations are similar to previous DO concentrations and are indicative of conditions conducive to biodegradation.
- Nitrate/nitrite concentrations at wells SHGW02 and SHGW03 were 0.17 mg/L and 7.5 mg/L, respectively. The nitrate/nitrite concentration at SHGW02 has remained steady while the nitrate/nitrite concentration at SHGW03 has shown slight increases in recent

years; however, SHGW03 nitrate/nitrite concentrations still remain lower compared to the 2001-2007 pre-injection average (**Table 6-2**). These low nitrate/nitrite concentrations are an indication that biodegradation is occurring.

- Fe^{2+} concentrations at wells SHGW02 and SHGW03 were 0.69 mg/L and 0.22 mg/L, respectively (**Table 6-2**). These low Fe^{2+} concentrations potentially indicate an environment less conducive to biodegradation.
- Sulfate concentrations at wells SHGW02 and SHGW03 were 26 mg/L and 31 mg/L, respectively (**Table 6-2**). Both concentrations are similar to concentrations seen in previous years and indicate reduction to sulfide may not be occurring.
- Methane concentrations at wells SHGW02 and SHGW03 were 6,100 µg/L and 51 µg/L, respectively (**Table 6-2**). Methane concentrations at SHGW02 remain high and are similar to previous years, whereas methane concentrations at SHGW03 are low and have decreased by more than an order of magnitude since 2018. Methanogenesis is occurring at both locations; however, it appears to be slowing at SHGW03.
- Ethane and Ethene are breakdown products of chlorinated compounds and have not been detected in any OU3 monitoring wells during the past seven-years. In 2020, ethene was detected at SHGW02 at a concentration of 1 µg/L (**Table 6-2**), which is evidence of complete degradation of chlorinated compounds.

6.3 DEGRADATION PROCESSES IDENTIFICATION

The following sections summarize degradation processes at OU1/OU3.

6.3.1 OU1 (Groundwater Explosives Plume) Degradation Processes

RDX and TNT are the two primary contaminants of concern in the OU1 groundwater explosives plume at CHAAP. The historical data indicate groundwater chemical conditions are favorable for off-post anaerobic degradation of RDX and TNT, especially in the feedlot area and on-post within the previously completed subsurface injection treatment areas. From 2007 through 2016 and again in 2019 and 2020, OU1 RAO subsurface injections were completed in the explosives on-post source areas to expedite degradation processes. Degradation processes were evaluated as part of the MNA demonstration to comply with the selected remedy for the OU1 off-post area.

Degradation of TNT may occur through abiotic reduction if site conditions are suitable, or through microbial degradation (USACE WES 1999). Microbial reduction of TNT may occur under both aerobic and anaerobic conditions. Two of the most prevalent transformation products, 2-Am-DNT and 4-Am-DNT, are produced by both the abiotic and microbial degradation mechanisms. According to USACE WES (1999), "These two monoamino transformation products are produced abiotically under a wide range of pH (5 to 7) and oxidation/reduction conditions (+500 mV to –150 mV)." Microbial biodegradation of TNT occurs through the enzymatic action of a variety of "'nonspecific' nicotinamide dinucleotide phosphate dependent nitroreductases" (McFarlan and Yao 2002). These biological processes do not use TNT directly as a primary respiratory substrate, but rather degrade TNT through the cometabolic reduction of nitro groups to amino groups

(Suthersan 2002). Certain cometabolic reactions can occur in cases where enzymatic activities are not confined to specific substrates. The enzymes are able to act on a range of closely related molecules. In this case, the nitroreductases are able to reduce different molecules containing nitro functional groups. In 2021, TNT degradation products 2-Am-DNT and 4-Am-DNT were present in samples collected in the OU1 on-post source areas and the off-post wells near the feedlot area (see **Tables 5-1** and **5-2**).

Biodegradation of RDX may occur under both aerobic and anaerobic conditions; however, CHAAP historical data indicate that RDX biodegradation best occurs under highly anaerobic groundwater conditions and is recalcitrant under aerobic conditions. Several microorganisms can biodegrade RDX anaerobically, although the pathways for degradation are not always known. One pathway that has been characterized is the use of Type I nitroreductase enzyme by enteric bacteria. Enzymatic activity of these bacteria reduces the nitro groups on RDX to form nitroso derivatives (Roberts and Kotharu 2004). The nitroso derivatives of RDX include MNX, di-nitroso-RDX (DNX), and tri-nitroso-RDX (TNX). RDX degradation products MNX, DNX, and TNX were detected by Spalding (1998) in the feedlot area. Spalding's (1998) report was included as Appendix F to the March 1999 Annual Report (URSGWCFS 1999).

Degradation processes proceed in the following order: denitrification, Fe^{3+} reduction to Fe^{2+}, sulfate reduction, and methanogenesis (Bouwer 1994). The historical data indicate that denitrification is the main degradation process occurring in the feedlot area and the Load Lines. Denitrification will occur at ORP values as high as 740 mV (Bouwer 1994). Other degradation processes (e.g., Fe^{3+} reduction, sulfate reduction, and methanogenesis) may also be occurring in the feedlot area and load lines, but to a lesser extent.

The conditions favoring denitrification for the off-post OU1explosives plume at CHAAP include:

- Abundant supply of nitrate in the aquifer from fertilizer applications site-wide and urea at the feedlot.
- Historically high DOC content in the aquifer underlying the feedlot.
- Historically anaerobic/reducing conditions (low ORP and DO) documented in groundwater underlying the feedlot.
- Anaerobic/reducing conditions with high DOC concentrations have been established/maintained in the upgradient on-post injection treatment areas.

6.3.2 OU3 (Shop Area) Degradation Processes

The compounds 1,1,2-TCA and 1,2-DCA are the primary contaminants of concern at OU3. Additionally, benzene and vinyl chloride have occasionally been detected at concentrations above their respective MCLs. 1,2-DCA and vinyl chloride are breakdown products of 1,1,2-TCA. Degradation processes were evaluated as part of the MNA demonstration to comply with the selected remedy at OU3.

The VOC 1,1,2-TCA is a chlorinated aliphatic hydrocarbon that may undergo biodegradation by three different mechanisms: reductive dehalogenation, electron donor reactions, and

cometabolism. The most important mechanism is reductive dehalogenation. In this process, the chlorinated aliphatic hydrocarbon is used as an electron acceptor. A chlorine atom is removed and replaced by a hydrogen atom (USEPA 1998). Reductive dehalogenation is most effective and most rapid under sulfate-reducing and methanogenic conditions. It may also occur under nitrate- and iron-reducing conditions. Because the chlorinated aliphatic hydrocarbon is not used as the source of carbon in this reaction, an alternative supply of organic carbon must exist for microbial growth. Benzene (along with other petroleum hydrocarbons that have been observed at OU3), could provide the source for this organic carbon.

In electron donor reactions, some chlorinated aliphatic hydrocarbons may be utilized as a respiratory substrate for oxidation/reduction reactions. Electron donor reactions typically require reduced chlorinated aliphatic hydrocarbons, such as vinyl chloride. Because detections of vinyl chloride are low and sporadic it is unlikely that this degradation mechanism is significantly affecting concentrations of 1,1,2-TCA at CHAAP.

Cometabolic degradation is primarily observed under aerobic conditions, although it also may occur under anaerobic conditions. Cometabolic reactions occur when an enzyme or co-factor, produced for other purposes, also acts on chlorinated aliphatic hydrocarbons. These reactions can have a detrimental effect on the microbe that produced the enzyme or co-factor (USEPA 1998).

Microbial degradation of benzene and other petroleum hydrocarbons may also potentially occur through reductive dehalogenation reactions after DO has been depleted. These reactions are a subset of the larger set of electron acceptor reactions, which may occur under aerobic or anaerobic conditions. Electron acceptor reactions result in metabolism of the petroleum hydrocarbons, producing CO_2. When DO has been depleted, microbial degradation of petroleum hydrocarbons may proceed using nitrate, Fe^{3+}, sulfate, and CO_2 (methanogenesis) preferentially, in that order, as electron acceptors.

The MNA data indicate that denitrification, Fe^{3+} reduction, and methanogenesis are the dominant processes occurring for degradation of the VOC plume, along with cometabolism with petroleum hydrocarbons as a carbon source. VOC degradation products 1,2-DCA and vinyl chloride have been previously detected in samples collected at OU3. Current MNA data for OU3 wells inside treatment area are shown in **Table 6-2**. Conditions favoring natural attenuation at OU3 include:

- Historically low ORP values at wells in and immediately downgradient of the VOC plume support a reducing environment for chlorinated solvents.
- Low DO concentrations at wells in and immediately downgradient of the VOC plume are favorable for reductive dechlorination of chlorinated solvents (USEPA 1998).
- Higher methane concentrations at wells in and immediately downgradient of the VOC plume indicate that methanogenesis is occurring.

6.4 DEGRADATION RATES

The following sections summarize degradation rates for OU1/OU3.

6.4.1 OU1 (Groundwater Explosives Plume) Degradation Rates

As part of the initial natural attenuation evaluation at CHAAP, a groundwater contaminant fate and transport model was completed by URS in 2001 (URSGWCFS 2001a). For the modeling evaluations, first-order decay rates were estimated for RDX, TNT, and HMX. Decay rate constants represent loss of contaminant mass due to biotic decay processes (e.g., biodegradation) and abiotic decay processes (e.g., hydrolysis and evaporation). The most recent estimation of decay rates was completed in 2015. Methodology, data, calculations used to estimate the 2015 degradation half-lives, and the historical estimated average half-lives are provided in Appendix G of the Final 2015 Groundwater Annual Monitoring and Subsurface Injection Report (BW-URS 2017a).

The most recent 2015 half-life estimates for the OU1 explosives plume were found to be similar to previous estimations completed in 2001, 2005, and 2010 and are within the range of published literature values (USACE WES 1997, 1998, 1999). The published half-life values for subsurface environments similar to CHAAP range from 1 to 10 years.

The 2015 calculated half-lives were used in the 2021 CHAAP groundwater contaminate fate and transport modeling evaluations to help predict site remediation time frames. Based on the 2021 groundwater modeling evaluation, the current estimated site remediation time frame for all of OU1 is approximately 13 years from May 2021 (see **Section 7**). The contaminant concentrations, half-life values, and residual source area concentrations that were used in the contaminant fate and transport model to predict these site remediation time frames, are provided in **Section 7**.

6.4.2 OU3 (Shop Area 1,1,2-TCA Plume) Degradation Rates

The first-order decay rate was estimated for 1,1,2-TCA using historical data (BW-URS 2017a). The decay rate was estimated using the single well method (Graves 1995). The decay rate constant was then converted into a degradation half-life. The estimated half-life calculated for the OU3 1,1,2-TCA concentration was 2.1 years. The half-life estimate for the OU3 1,1,2-TCA concentration is within the range of published literature values for 1,1,2-TCA (Howard, et al. 1991). Data and calculations used to estimate the degradation half-life for the OU3 1,1,2-TCA concentration are included in Appendix G of the Final 2015 Groundwater Monitoring and Subsurface Injection Annual Report (BW-URS 2017a).

A decay rate and associated half-life estimate has not been calculated for 1,2-DCA or vinyl chloride, both 1,1,2-TCA breakdown products. As discussed in **Section 6.3.2**, 1,2-DCA and vinyl chloride are only periodically detected at a concentration above its MCL at SHGW02. Considering the variability of the 1,2-DCA and vinyl chloride concentrations, the minor amount of migration since 2001, and the fact that neither contaminant are included in the annual contaminant fate and transport modeling evaluation, estimation of new decay rates is not warranted.

6.5 NATURAL ATTENUATION SUMMARIES

The following sections summarize natural attenuation processes at OU1/OU3.

6.5.1 OU1 (Groundwater Explosives Plume) Natural Attenuation Summary

Natural attenuation of explosives in groundwater is occurring for OU1. The key elements that support the necessary lines of evidence for the use of the MNA remedy at OU1 include:

- RDX and TNT concentrations in off-post monitoring wells have decreased steadily over time, with all detections being below corresponding HALs since 2014.
- RDX degradation product MNX and TNT breakdown products 2-Am-DNT and 4-Am-DNT are found at both off-post and upgradient on-post locations.
- Significant denitrification is off-post at the feed lot area and at upgradient on-post locations near the load lines (at wells both inside and outside of influence of treatment areas), which is facilitating explosives degradation in the groundwater plume as it migrates through these areas. The feedlot area subsurface zone is functioning as an in-situ anaerobic/reducing treatment cell by virtue of contributing nitrate to the shallow aquifer.
- Other anaerobic degradation processes (e.g., Fe^{3+} reduction and methanogenesis) are also occurring at upgradient on-post areas near the load lines and to a lesser extent in the feedlot area.

6.5.2 OU3 (Shop Area) Natural Attenuation Summary

Natural attenuation of VOCs in groundwater is occurring at OU3. The key elements that support the necessary lines of evidence for the use of the MNA remedy at OU3 include:

- The 1,1,2-TCA degradation product 1,2-DCA is historically detected at wells SHGW02 and SHGW03 (most recently in 2020 at SHGW02) indicating the reductive dehalogenation is occurring.
- Benzene was not detected in 2021.
- Petroleum hydrocarbon compounds have historically been present in wells G0069, SHGW03, and SHGW04, providing a source of organic carbon for microbial reductive dehalogenation.
- Low DO concentrations exist within and downgradient of the VOC plume area, which is favorable for reductive dehalogenation of chlorinated solvents (Wiedemeier, et al. 1996; USEPA 1998).
- Low ORP values within and downgradient of the VOC plume area indicate that a reducing environment exists, supporting reductive dehalogenation of chlorinated solvents (Wiedemeier, et al. 1996).
- High methane values exist within and downgradient of the VOC plume area, indicating that methanogenesis is occurring.
- VOCs have not been detected above MCLs downgradient of SHGW03, indicating that VOC plume is not migrating beyond the OU3 boundary.

TABLE 6-1
SUMMARY OF OU1 OFF-POST MNA PARAMETERS
2021 ANNUAL REPORT

Well Number	ORP (mV)							DO (mg/L)							Nitrate/Nitrite (mg/L)							Ammonia (mg/L)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells																												
CA210	NS	NS	NS	NS	NS	70.0	192.0	NS	NS	NS	NS	NS	0.48	0.06	NS	NS	NS	NS	NS	19	41	NS	NS	NS	NS	NS	0.052	0.14
NW020	188.3	195.7	112.4	108.0	150.5	153.0	193.0	3.18	5.29	3.43	2.72	4.33	6.30	6.69	32	NS	NS	NS	NS	42	59	ND	NS	NS	NS	NS	ND	ND
NW050	NS	NS	NS	NS	NS	130.0	NS	NS	NS	NS	NS	NS	0.40	NS	NS	NS	NS	NS	NS	78	NS	NS	NS	NS	NS	NS	0.98	NS
NW060	NS	NS	NS	NS	NS	130.0	214.5	NS	NS	NS	NS	NS	10.63	10.89	NS	NS	NS	NS	NS	2.4	2.4	NS	NS	NS	NS	NS	ND	ND
NW070	NS	NS	NS	NS	NS	-7.0	137.0	NS	NS	NS	NS	NS	0.40	0.19	NS	NS	NS	NS	NS	ND	0.031	NS	NS	NS	NS	NS	0.087	0.034
NW080	179.9	173.9	NS	NS	NS	186.0	NS	7.92	9.72	NS	NS	NS	7.66	NS	43	NS	NS	NS	NS	26	NS	ND	NS	NS	NS	NS	ND	NS
Shallow-Intermediate Wells																												
CA211	NS	NS	NS	NS	NS	94.0	149.5	NS	NS	NS	NS	NS	0.78	0.70	NS	NS	NS	NS	NS	33	32	NS	NS	NS	NS	NS	ND	ND
NW021	182.3	139.2	77.6	109.7	126.2	150.0	148.3	0.38	0.38	0.30	0.06	1.18	0.34	0.67	2.8	NS	NS	NS	NS	1.5	0.9	ND	NS	NS	NS	NS	1.4	1.5
NW051	NS	NS	NS	NS	NS	126.0	NS	NS	NS	NS	NS	NS	0.37	NS	NS	NS	NS	NS	NS	24	NS	NS	NS	NS	NS	NS	ND	NS
NW061	NS	NS	NS	NS	NS	180.0	243.4	NS	NS	NS	NS	NS	0.38	0.29	NS	NS	NS	NS	NS	5.7	9.8	NS	NS	NS	NS	NS	4.5	2.4
NW081R	172.3	173.9	NS	NS	NS	161.0	NS	1.75	2.35	NS	NS	NS	1.46	NS	36	NS	NS	NS	NS	26	NS	ND	NS	NS	NS	NS	ND	NS
Intermediate Wells																												
CA212	NS	NS	NS	NS	NS	98.0	124.8	NS	NS	NS	NS	NS	0.41	0.05	NS	NS	NS	NS	NS	18	14	NS	NS	NS	NS	NS	ND	ND
NW022	12.1	-45.3	73.7	77.7	207.7	85.0	-29.7	0.27	0.32	0.48	0.08	1.15	0.33	0.03	ND	NS	NS	NS	NS	ND	ND	0.033	NS	NS	NS	NS	1.4	1.4
NW052	NS	NS	NS	NS	NS	27.0	NS	NS	NS	NS	NS	NS	0.36	NS	NS	NS	NS	NS	NS	0.052	NS	NS	NS	NS	NS	NS	0.031	NS
NW062	NS	NS	NS	NS	NS	-67.0	-56.9	NS	NS	NS	NS	NS	0.33	0.21	NS	NS	NS	NS	NS	ND	0.053	NS	NS	NS	NS	NS	0.91	1.0
NW071	NS	NS	NS	NS	NS	88.0	165.3	NS	NS	NS	NS	NS	3.00	1.80	NS	NS	NS	NS	NS	30	32	NS	NS	NS	NS	NS	ND	ND
NW082R	166.8	151.9	NS	NS	NS	153.0	NS	0.41	0.35	NS	NS	NS	0.49	NS	35	NS	NS	NS	NS	17	NS	0.19	NS	NS	NS	NS	0.024	NS
Deep Wells																												
CA213	NS	NS	NS	NS	NS	95.0	106.5	NS	NS	NS	NS	NS	0.48	0.33	NS	NS	NS	NS	NS	1.0	1.5	NS	NS	NS	NS	NS	ND	ND

Notes:

Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
MNA = monitored natural attenuation
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
TKN = total Kjeldahl nitrogen

TABLE 6-1
SUMMARY OF OU1 OFF-POST MNA PARAMETERS
2021 ANNUAL REPORT

Well Number	TKN (mg/L)							DOC (mg/L)							Carbon Dioxide (mg/L)							Methane (µg/L)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells																												
CA210	NS	NS	NS	NS	NS	0.72	ND	NS	NS	NS	NS	NS	14	9.5	NS	NS	NS	NS	NS	151	173	NS	NS	NS	NS	NS	2.3	2.7
NW020	ND	NS	NS	NS	NS	ND	ND	3.20	NS	NS	NS	NS	5.9	6.9	98	NS	NS	NS	NS	142	156	ND	NS	NS	NS	NS	ND	ND
NW050	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	6.5	NS	NS	NS	NS	NS	NS	98	NS	NS	NS	NS	NS	NS	ND	NS
NW060	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	0.96	2.6	NS	NS	NS	NS	NS	12	16	NS	NS	NS	NS	NS	ND	ND
NW070	NS	NS	NS	NS	NS	1.3	2.0	NS	NS	NS	NS	NS	10	15	NS	NS	NS	NS	NS	32	53	NS	NS	NS	NS	NS	3900	7.5
NW080	ND	NS	NS	NS	NS	ND	NS	3.3	NS	NS	NS	NS	3.9	NS	53	NS	NS	NS	NS	93	NS	ND	NS	NS	NS	NS	ND	NS
Shallow-Intermediate Wells																												
CA211	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	6.0	4.7	NS	NS	NS	NS	NS	93	80	NS	NS	NS	NS	NS	ND	ND
NW021	ND	NS	NS	NS	NS	1.8	1.7	2.4	NS	NS	NS	NS	2.8	3.3	133	NS	NS	NS	NS	151	151	43	NS	NS	NS	NS	5.7	34
NW051	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	9.2	NS	NS	NS	NS	NS	NS	147	NS	NS	NS	NS	NS	NS	1.9	NS
NW061	NS	NS	NS	NS	NS	2.5	1.8	NS	NS	NS	NS	NS	4.1	4.7	NS	NS	NS	NS	NS	120	129	NS	NS	NS	NS	NS	19	28
NW081R	ND	NS	NS	NS	NS	ND	NS	4.4	NS	NS	NS	NS	5.0	NS	93	NS	NS	NS	NS	98	NS	ND	NS	NS	NS	NS	ND	NS
Intermediate Wells																												
CA212	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	3.1	2.4	NS	NS	NS	NS	NS	76	76	NS	NS	NS	NS	NS	ND	ND
NW022	ND	NS	NS	NS	NS	1.7	1.4	2.4	NS	NS	NS	NS	2.6	3.4	151	NS	NS	NS	NS	178	191	370	NS	NS	NS	NS	440	430
NW052	NS	NS	NS	NS	NS	1.0	NS	NS	NS	NS	NS	NS	6.6	NS	NS	NS	NS	NS	NS	142	NS	NS	NS	NS	NS	NS	450	NS
NW062	NS	NS	NS	NS	NS	1.5	ND	NS	NS	NS	NS	NS	2.3	2.9	NS	NS	NS	NS	NS	107	120	NS	NS	NS	NS	NS	21	7.6
NW071	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	3.7	3.2	NS	NS	NS	NS	NS	43	49	NS	NS	NS	NS	NS	ND	ND
NW082R	ND	NS	NS	NS	NS	ND	NS	4.2	NS	NS	NS	NS	4.2	NS	84	NS	NS	NS	NS	102	NS	5.2	NS	NS	NS	NS	2.0	NS
Deep Wells																												
CA213	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	NS	NS	1.7	2	NS	NS	NS	NS	NS	53	58	NS	NS	NS	NS	NS	ND	ND

Notes:

Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
MNA = monitored natural attenuation
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
TKN = total Kjeldahl nitrogen

TABLE 6-1
SUMMARY OF OU1 OFF-POST MNA PARAMETERS
2021 ANNUAL REPORT

Well Number	Alkalinity (mg/L)							Ferrous Iron (mg/L)							Sulfate (mg/L)							Sulfide (mg/L)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells																												
CA210	NS	NS	NS	NS	NS	340	390	NS	NS	NS	NS	NS	1.13	0.15	NS	NS	NS	NS	NS	150	190	NS	NS	NS	NS	NS	ND	ND
NW020	220	NS	NS	NS	NS	320	350	0.05	ND	0.08	ND	ND	0.96	ND	79	NS	NS	NS	NS	230	240	ND	NS	NS	NS	NS	ND	ND
NW050	NS	NS	NS	NS	NS	220	NS	NS	NS	NS	NS	NS	0.30	NS	NS	NS	NS	NS	NS	200	NS	NS	NS	NS	NS	NS	ND	NS
NW060	NS	NS	NS	NS	NS	28	36	NS	NS	NS	NS	NS	0.10	0.10	NS	NS	NS	NS	NS	5.2	9.4	NS	NS	NS	NS	NS	ND	ND
NW070	NS	NS	NS	NS	NS	72	120	NS	NS	NS	NS	NS	1.21	0.04	NS	NS	NS	NS	NS	5.9	18	NS	NS	NS	NS	NS	ND	ND
NW080	120	NS	NS	NS	NS	210	NS	ND	ND	NS	NS	NS	0.26	NS	99	NS	NS	NS	NS	130	NS	ND	NS	NS	NS	NS	ND	NS
Shallow-Intermediate Wells																												
CA211	NS	NS	NS	NS	NS	210	180	NS	NS	NS	NS	NS	0.91	0.02	NS	NS	NS	NS	NS	110	89	NS	NS	NS	NS	NS	0.8	ND
NW021	300	NS	NS	NS	NS	340	340	0.30	ND	0.08	ND	0.02	1.09	0.02	170	NS	NS	NS	NS	220	200	ND	NS	NS	NS	NS	ND	0.8
NW051	NS	NS	NS	NS	NS	330	NS	NS	NS	NS	NS	NS	0.41	NS	NS	NS	NS	NS	NS	190	NS	NS	NS	NS	NS	NS	ND	NS
NW061	NS	NS	NS	NS	NS	270	290	NS	NS	NS	NS	NS	0.20	0.03	NS	NS	NS	NS	NS	170	150	NS	NS	NS	NS	NS	ND	ND
NW081R	210	NS	NS	NS	NS	220	NS	ND	ND	NS	NS	NS	0.62	NS	85	NS	NS	NS	NS	95	NS	ND	NS	NS	NS	NS	0.8	NS
Intermediate Wells																												
CA212	NS	NS	NS	NS	NS	170	170	NS	NS	NS	NS	NS	0.93	0.10	NS	NS	NS	NS	NS	79	68	NS	NS	NS	NS	NS	ND	0.8
NW022	340	NS	NS	NS	NS	400	430	1.02	0.30	0.39	0.57	1.06	1.94	0.92	240	NS	NS	NS	NS	290	250	ND	NS	NS	NS	NS	ND	0.8
NW052	NS	NS	NS	NS	NS	320	NS	NS	NS	NS	NS	NS	0.96	NS	NS	NS	NS	NS	NS	190	NS	NS	NS	NS	NS	NS	ND	NS
NW062	NS	NS	NS	NS	NS	240	270	NS	NS	NS	NS	NS	0.84	0.94	NS	NS	NS	NS	NS	190	190	NS	NS	NS	NS	NS	ND	ND
NW071	NS	NS	NS	NS	NS	96	110	NS	NS	NS	NS	NS	0.95	0.08	NS	NS	NS	NS	NS	64	63	NS	NS	NS	NS	NS	ND	0.8
NW082R	190	NS	NS	NS	NS	230	NS	0.10	0.07	NS	NS	NS	0.33	NS	81	NS	NS	NS	NS	85	NS	ND	NS	NS	NS	NS	ND	NS
Deep Wells																												
CA213	NS	NS	NS	NS	NS	120	130	NS	NS	NS	NS	NS	1.02	0.60	NS	NS	NS	NS	NS	57	60	NS	NS	NS	NS	NS	ND	ND

Notes:

Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
MNA = monitored natural attenuation
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
TKN = total Kjeldahl nitrogen

TABLE 6-1
SUMMARY OF OU1 OFF-POST MNA PARAMETERS
2021 ANNUAL REPORT

Well Number	pH							Specific Conductance (mS/cm)						
	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells														
CA210	NS	NS	NS	NS	NS	6.40	6.66	NS	NS	NS	NS	NS	1.550	1.611
NW020	6.41	6.11	6.40	6.19	6.39	6.57	6.85	0.937	0.713	1.032	0.852	0.802	1.450	1.633
NW050	NS	NS	NS	NS	NS	5.97	NS	NS	NS	NS	NS	NS	0.567	NS
NW060	NS	NS	NS	NS	NS	5.88	6.12	NS	NS	NS	NS	NS	0.065	0.105
NW070	NS	NS	NS	NS	NS	6.51	6.88	NS	NS	NS	NS	NS	0.195	0.279
NW080	6.29	6.35	NS	NS	NS	6.26	NS	1.194	1.106	NS	NS	NS	1.070	NS
Shallow-Intermediate Wells														
CA211	NS	NS	NS	NS	NS	6.46	6.33	NS	NS	NS	NS	NS	1.110	0.809
NW021	6.91	6.74	6.88	6.53	6.58	6.84	7.02	0.982	0.800	0.900	0.841	0.845	1.180	1.084
NW051	NS	NS	NS	NS	NS	6.14	NS	NS	NS	NS	NS	NS	0.442	NS
NW061	NS	NS	NS	NS	NS	6.59	6.79	NS	NS	NS	NS	NS	0.308	0.920
NW081R	6.64	6.53	NS	NS	NS	6.42	NS	1.107	0.893	NS	NS	NS	1.050	NS
Intermediate Wells														
CA212	NS	NS	NS	NS	NS	6.64	6.65	NS	NS	NS	NS	NS	0.732	0.555
NW022	7.34	7.10	7.09	6.77	6.80	7.05	7.03	1.212	0.974	1.084	0.964	1.001	1.390	1.338
NW052	NS	NS	NS	NS	NS	6.26	NS	NS	NS	NS	NS	NS	0.312	NS
NW062	NS	NS	NS	NS	NS	6.71	7.04	NS	NS	NS	NS	NS	0.270	0.853
NW071	NS	NS	NS	NS	NS	6.40	6.35	NS	NS	NS	NS	NS	0.745	0.640
NW082R	6.67	6.60	NS	NS	NS	6.64	NS	1.041	0.831	NS	NS	NS	0.916	NS
Deep Wells														
CA213	NS	NS	NS	NS	NS	7.56	7.44	NS	NS	NS	NS	NS	0.501	0.366

Notes:

Dry = well could not be sampled due to lack of water
µg/L = micrograms per liter
Aban = Abandoned
Avg = average
DO = dissolved oxygen
DOC = dissolved organic carbon
mg/L = milligrams per liter
MNA = monitored natural attenuation
mS/cm = milliSiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
NS = not sampled
ORP = oxidation/reduction potential
OU = Operable Unit
TKN = total Kjeldahl nitrogen

TABLE 6-2
SUMMARY OF OU3 SHOP AREA MNA PARAMETERS, WELLS INSIDE RAO TREATMENT AREA
2021 ANNUAL REPORT

Well Number	ORP (mV)								DO (mg/L)								Nitrate/Nitrite (mg/L)								Alkalinity (mg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Area																																
SHGW02	**93.0**	-12.0	-41.0	-32.1	-12.0	45.9	-25.0	-110.0	**1.36**	0.45	0.25	0.26	0.22	0.53	0.48	0.02	**3.7**	ND	ND	0.1	ND	0.033	0.022	0.17	**180**	240	260	230	230	85	160	200
SHGW03	**-49.0**	-48.2	-104.2	-55.6	-29.2	82.1	65.0	113.7	**0.20**	0.27	0.31	0.28	0.38	0.41	0.99	1.05	**2.8**	ND	ND	0.1	ND	0.47	1.9	7.5	**198**	230	230	240	230	190	160	160

Notes:
µg/L = micrograms per liter
Avg = average
DO = dissolved oxygen
mg/L = milligrams per liter
MNA = monitored natural attenuation
mS/cm = millisiemens per centimeter
mV = millivolts
N/A = not applicable
ND = nondetect
ORP = oxidation/reduction potential
OU = Operable Unit
RAO = Remedial Action Operation

TABLE 6-2
SUMMARY OF OU3 SHOP AREA MNA PARAMETERS, WELLS INSIDE RAO TREATMENT AREA
2021 ANNUAL REPORT

Well Number	Ferrous Iron (mg/L)								Sulfate (mg/L)								pH								Specific Conductance (mS/cm)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Area																																
SHGW02	**0.86**	1.34	2.58	2.25	6.10	6.58	15.00	0.69	**30**	2.2	9.6	7.6	8.3	39	13	26	**6.44**	5.81	5.86	6.05	5.97	4.60	5.45	5.63	**0.437**	0.542	0.359	0.442	0.354	0.405	0.520	0.560
SHGW03	**4.62**	2.71	3.01	15	2.80	0.65	0.56	0.22	**21**	14	12	11	12	13	39	31	**6.32**	6.26	6.08	6.21	6.08	6.23	5.88	5.88	**0.469**	0.578	0.362	0.459	0.366	0.393	0.381	0.45

Notes:
µg/L = micrograms per liter
Avg = average
DO = dissolved oxygen
mg/L = milligrams per liter
MNA = monitored natural attenu
mS/cm = millisiemens per centim
mV = millivolts
N/A = not applicable
ND = nondetect
ORP = oxidation/reduction poten
OU = Operable Unit
RAO = Remedial Action Operati

TABLE 6-2
SUMMARY OF OU3 SHOP AREA MNA PARAMETERS, WELLS INSIDE RAO TREATMENT AREA
2021 ANNUAL REPORT

Well Number	Methane (µg/L)								Ethane (µg/L)								Ethene (µg/L)							
	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21	Pre-Inj Avg 2001-2007	Aug-15	Aug-16	Mar-17	Mar-18	Jun-19	Jun-20	May-21
Shallow Wells in RAO Treatment Area																								
SHGW02	**73**	18000	20000	25000	20000	3800	13000	6100	**0.70**	ND	ND	ND	ND	ND	ND	ND	**ND**	ND	ND	ND	ND	ND	1.0	ND
SHGW03	**26**	4500	3700	3900	2200	840	160	51	**1.0**	ND	ND	ND	ND	ND	ND	ND	**ND**	ND	ND	ND	ND	ND	ND	ND

Notes:
µg/L = micrograms per liter
Avg = average
DO = dissolved oxygen
mg/L = milligrams per liter
MNA = monitored natural attenu
mS/cm = millisiemens per centir
mV = millivolts
N/A = not applicable
ND = nondetect
ORP = oxidation/reduction poten
OU = Operable Unit
RAO = Remedial Action Operati

PZ007	
Ammonia	0.04 J mg/L
Nitrate/ Nitrite	0.8 mg/L
Sulfate	510 mg/L
DOC	3.2 mg/L
Alkalinity	390 mg/L
CO_2	173 mg/L

PZ013	
Ammonia	1.4 mg/L
TKN	2.1 mg/L
Nitrate/ Nitrite	5.6 mg/L
Sulfide	1.6 J mg/L
Sulfate	310 mg/L
DOC	7.4 mg/L
Alkalinity	890 mg/L
Methane	3900 µg/L
CO_2	396 mg/L

G0117	
Ammonia	7.3 mg/L
TKN	8.2 mg/L
Sulfide	1.6 J mg/L
Sulfate	350 mg/L
DOC	11 mg/L
Alkalinity	980 mg/L
Methane	15000 µg/L
CO_2	436 mg/L

G0116	
Ammonia	14 mg/L
TKN	18 mg/L
Sulfide	1.6 J mg/L
Sulfate	240 mg/L
DOC	16 mg/L
Alkalinity	1100 mg/L
Methane	9900 µg/L
CO_2	489 mg/L

G0113	
Ammonia	0.98 mg/L
TKN	1.7 mg/L
Sulfide	2.4 J mg/L
Sulfate	100 mg/L
DOC	4.7 mg/L
Alkalinity	300 mg/L
Methane	11000 µg/L
CO_2	133 mg/L

G0093	
Ammonia	0.63 mg/L
Nitrate/ Nitrite	4.4 mg/L
Sulfide	0.8 J mg/L
Sulfate	110 mg/L
DOC	4 mg/L
Alkalinity	330 mg/L
Methane	3500 µg/L
CO_2	147 mg/L

G0083	
Ammonia	1.7 mg/L
TKN	1.8 mg/L
Sulfide	0.8 J mg/L
Sulfate	280 mg/L
DOC	4.2 mg/L
Alkalinity	490 mg/L
Methane	130 µg/L
CO_2	218 mg/L

G0091	
Nitrate/ Nitrite	38 mg/L
Sulfide	0.8 J mg/L
Sulfate	200 mg/L
DOC	3.1 mg/L
Alkalinity	270 mg/L
CO_2	120 mg/L

G0022	
Nitrate/ Nitrite	5.3 mg/L
Sulfide	0.8 J mg/L
Sulfate	130 mg/L
DOC	3.2 mg/L
Alkalinity	330 mg/L
Methane	6100 µg/L
CO_2	147 mg/L

NW060	
Nitrate/ Nitrite	2.4 mg/L
Sulfate	9.4 J mg/L
DOC	2.6 mg/L
Alkalinity	36 mg/L
CO_2	16 mg/L

G0104	
Ammonia	0.43 mg/L
TKN	1.1 mg/L
Sulfate	950 J mg/L
DOC	5.1 mg/L
Alkalinity	500 mg/L
Methane	950 µg/L
CO_2	222 mg/L

G0107	
Ammonia	0.17 mg/L
TKN	0.74J mg/L
Sulfate	1200 mg/L
DOC	4.4 mg/L
Alkalinity	450 mg/L
Methane	200J µg/L
CO_2	200 mg/L

PZ011	
Ammonia	8.5 mg/L
TKN	13 mg/L
Sulfide	0.8 J mg/L
Sulfate	480 mg/L
DOC	11 mg/L
Alkalinity	810 mg/L
Methane	12000 µg/L
CO_2	360 mg/L

PZ014	
TKN	0.95 J mg/L
Nitrate/Nitrite	0.92 mg/L
Sulfide	1.6 J mg/L
Sulfate	420 mg/L
DOC	5.5 mg/L
Alkalinity	580 mg/L
Methane	790 µg/L
CO_2	258 mg/L

G0112	
Ammonia	0.3 mg/L
Nitrate/Nitrite	7.5 mg/L
Sulfide	0.8 J mg/L
Sulfate	100 J mg/L
DOC	3.9 mg/L
Alkalinity	260 mg/L
Methane	1900 µg/L
CO_2	116 mg/L

G0108	
Ammonia	3.1 mg/L
TKN	4.8 mg/L
Sulfate	13 mg/L
DOC	12 mg/L
Alkalinity	560 mg/L
Methane	16000 µg/L
CO_2	249 mg/L

CA210	
Ammonia	0.14 mg/L
Nitrate/ Nitrite	41 mg/L
Sulfate	190 mg/L
DOC	9.5 mg/L
Alkalinity	390 mg/L
Methane	2.7 µg/L
CO_2	173 mg/L

G0103	
Ammonia	0.22 mg/L
TKN	2.7 mg/L
Sulfide	34 J mg/L
Sulfate	970 mg/L
DOC	86 mg/L
Alkalinity	580 mg/L
Methane	120 µg/L
CO_2	258 mg/L

G0105	
Ammonia	0.65 mg/L
TKN	1.2 J mg/L
Sulfate	1200 mg/L
DOC	4.2 mg/L
Alkalinity	460 mg/L
Methane	840 µg/L
CO_2	204 mg/L

PZ010	
Ammonia	0.24 mg/L
TKN	0.84 J mg/L
Nitrate/Nitrite	7.2 mg/L
Sulfide	0.8 J mg/L
Sulfate	680 mg/L
DOC	6.3 mg/L
Alkalinity	520 mg/L
Methane	1700 µg/L
CO_2	231 mg/L

PZ009	
Nitrate/ Nitrite	8.1 mg/L
Sulfate	740 mg/L
DOC	5.8 mg/L
Alkalinity	520 mg/L
CO_2	231 mg/L

NW070	
Ammonia	0.03 J mg/L
TKN	2 mg/L
Nitrate/Nitrite	0.03 J mg/L
Sulfate	18 mg/L
DOC	15 mg/L
Alkalinity	120 mg/L
Methane	7.5 µg/L
CO_2	53 mg/L

NW020	
Nitrate/ Nitrite	59 mg/L
Sulfate	240 mg/L
DOC	6.9 mg/L
Alkalinity	350 mg/L
CO_2	156 mg/L

G0102	
Ammonia	3.5 mg/L
Nitrate/ Nitrite	0.32 mg/L
Sulfide	4.8 mg/L
Sulfate	740 mg/L
DOC	88 mg/L
Alkalinity	770 mg/L
Methane	120 µg/L
CO_2	342 mg/L

G0106	
Ammonia	0.05J mg/L
Nitrate/ Nitrite	0.03J mg/L
Sulfide	0.8J mg/L
Sulfate	1200 mg/L
DOC	4 mg/L
Alkalinity	440 mg/L
Methane	2J µg/L
CO_2	196 mg/L

G0017	
TKN	0.71 J mg/L
Sulfide	6.4 mg/L
Sulfate	540 mg/L
DOC	7.6 mg/L
Alkalinity	440 mg/L
Methane	1500 µg/L
CO_2	196 mg/L

G0066R	
Ammonia	3.5 mg/L
TKN	4.9 mg/L
Nitrate/ Nitrite	0.2 mg/L
Sulfide	2.4 J mg/L
Sulfate	450 mg/L
DOC	13 mg/L
Alkalinity	640 mg/L
Methane	4000 µg/L
CO_2	284 mg/L

G0122	
Ammonia	3.3 mg/L
TKN	5.6 mg/L
Nitrate/ Nitrite	0.68 mg/L
Sulfide	4.8 mg/L
Sulfate	360 mg/L
DOC	32 mg/L
Alkalinity	1100 mg/L
Methane	11000 µg/L
CO_2	489 mg/L

G0079	
TKN	0.83 J mg/L
Nitrate/ Nitrite	1.8 mg/L
Sulfate	50 mg/L
DOC	5 mg/L
Alkalinity	310 mg/L
CO_2	138 mg/L

PZ019	
Nitrate/ Nitrite	36 J mg/L
Sulfide	0.8 J mg/L
Sulfate	79 mg/L
DOC	2 mg/L
Alkalinity	130 mg/L
CO_2	58 mg/L

G0024	
Nitrate/ Nitrite	7.8 mg/L
Sulfate	54 mg/L
DOC	3.3 mg/L
Alkalinity	220 mg/L
CO_2	98 mg/L

PZ020	
Nitrate/ Nitrite	13 mg/L
Sulfide	0.8 J mg/L
Sulfate	150 mg/L
DOC	3.5 mg/L
Alkalinity	320 mg/L
Methane	0.79 J µg/L
CO_2	142 mg/L

PZ005	
Nitrate/ Nitrite	8.5 mg/L
Sulfide	0.8 J mg/L
Sulfate	1400 mg/L
DOC	7.7 mg/L
Alkalinity	630 mg/L
CO_2	280 mg/L

G0119	
Ammonia	0.35 mg/L
TKN	1.1 mg/L
Sulfide	0.8 J mg/L
Sulfate	680 mg/L
DOC	4.7 mg/L
Alkalinity	480 mg/L
Methane	2100 µg/L
CO_2	213 mg/L

G0044	
Nitrate/ Nitrite	8.9 mg/L
Sulfide	2.4 J mg/L
Sulfate	700 mg/L
DOC	4.9 mg/L
Alkalinity	490 mg/L
CO_2	218 mg/L

G0111	
Ammonia	0.33 mg/L
TKN	1.9 mg/L
Nitrate/Nitrite	6.5 mg/L
Sulfide	1.6 J mg/L
Sulfate	200 mg/L
DOC	8.2 mg/L
Alkalinity	910 mg/L
Methane	3400 µg/L
CO_2	404 mg/L

G0084	
Ammonia	0.18 mg/L
TKN	0.97 J mg/L
Nitrate/ Nitrite	0.42 mg/L
Sulfide	0.8 J mg/L
Sulfate	100 mg/L
DOC	4.4 mg/L
Alkalinity	450 mg/L
Methane	8300 µg/L
CO_2	200 mg/L

G0110	
Ammonia	5.9 mg/L
TKN	8.1 mg/L
Sulfide	0.8 J mg/L
Sulfate	42 mg/L
DOC	9.6 mg/L
Alkalinity	730 mg/L
Methane	13000 µg/L
CO_2	324 mg/L

G0118	
Ammonia	8.4 mg/L
TKN	13 mg/L
Sulfate	43 mg/L
DOC	22 mg/L
Alkalinity	770 mg/L
Methane	15000 µg/L
CO_2	342 mg/L

G0048	
Ammonia	0.29 mg/L
Nitrate/ Nitrite	37 mg/L
Sulfide	0.8 J mg/L
Sulfate	62 mg/L
DOC	3 mg/L
Alkalinity	140 mg/L
Methane	2200 µg/L
CO_2	62 mg/L

PZ017R	
Ammonia	0.03 J mg/L
Nitrate/ Nitrite	24 mg/L
Sulfate	81 mg/L
DOC	4.2 mg/L
Alkalinity	280 mg/L
Methane	6500 µg/L
CO_2	124 mg/L

PZ018	
Ammonia	0.32 J mg/L
TKN	2.4 mg/L
Nitrate/Nitrite	5 mg/L
Sulfate	53 mg/L
DOC	11 mg/L
Alkalinity	360 mg/L
Methane	7900 µg/L
CO_2	160 mg/L

G0095	
Ammonia	2.3 mg/L
TKN	3.9 mg/L
Nitrate/Nitrite	0.38 mg/L
Sulfide	0.8 J mg/L
Sulfate	530 mg/L
DOC	12 mg/L
Alkalinity	800 mg/L
Methane	10000 µg/L
CO_2	356 mg/L

G0101	
Ammonia	0.82 mg/L
TKN	2.2 mg/L
Sulfide	1.6 J mg/L
Sulfate	530 mg/L
DOC	8.5 mg/L
Alkalinity	760 mg/L
Methane	3900 µg/L
CO_2	338 mg/L

G0085	
Ammonia	0.3 mg/L
TKN	0.82 J mg/L
Nitrate/ Nitrite	0.04 J mg/L
Sulfide	3.2 J mg/L
Sulfate	190 mg/L
DOC	4.1 mg/L
Alkalinity	380 mg/L
Methane	6500 µg/L
CO_2	169 mg/L

G0094	
Ammonia	4.2 mg/L
TKN	2.5 mg/L
Sulfide	0.8 J mg/L
Sulfate	89 mg/L
DOC	6.5 mg/L
Alkalinity	340 mg/L
Methane	13000 µg/L
CO_2	151 mg/L

G0067	
Nitrate/ Nitrite	15 mg/L
Sulfide	0.8 J mg/L
Sulfate	120 mg/L
DOC	3 mg/L
Alkalinity	250 mg/L
CO_2	111 mg/L

G0023	
Ammonia	8.4 mg/L
TKN	5.6 mg/L
Sulfide	1.6 J mg/L
Sulfate	82 mg/L
DOC	4.9 mg/L
Alkalinity	360 mg/L
Methane	7400 µg/L
CO_2	160 mg/L

PZ001	
TKN	0.85 J mg/L
Nitrate/ Nitrite	0.06 J mg/L
Sulfide	2.4 J mg/L
Sulfate	1300 J mg/L
DOC	6.6 mg/L
Alkalinity	520 mg/L
CO_2	231 mg/L

PZ004	
TKN	0.81 J mg/L
Nitrate/ Nitrite	1.4 mg/L
Sulfide	0.8 J mg/L
Sulfate	1200 mg/L
DOC	6.2 mg/L
Alkalinity	510 mg/L
Methane	1 J µg/L
CO_2	227 mg/L

G0100	
Ammonia	6.7 mg/L
TKN	7.9 mg/L
Nitrate/ Nitrite	0.1 J mg/L
Sulfide	2.4 J mg/L
Sulfate	270 mg/L
DOC	12 mg/L
Alkalinity	810 mg/L
Methane	11000 µg/L
CO_2	360 mg/L

G0123	
Ammonia	1.9 J mg/L
TKN	3.5 J mg/L
Sulfate	230 mg/L
DOC	9.4 mg/L
Alkalinity	760 mg/L
Methane	18000 µg/L
CO_2	338 mg/L

G0099	
Ammonia	0.63 mg/L
TKN	1.3 mg/L
Nitrate/ Nitrite	5.8 mg/L
Sulfide	0.8 J mg/L
Sulfate	95 mg/L
DOC	4.8 mg/L
Alkalinity	260 mg/L
Methane	610 µg/L
CO_2	116 mg/L

G0114	
Ammonia	1.5 mg/L
TKN	1.9 mg/L
Sulfide	0.8 J mg/L
Sulfate	72 mg/L
DOC	3.7 mg/L
Alkalinity	280 mg/L
Methane	5500 µg/L
CO_2	124 mg/L

PZ015	
Ammonia	0.67 mg/L
Nitrate/Nitrite	12 mg/L
Sulfate	77 mg/L
DOC	3.8 mg/L
Alkalinity	210 mg/L
Methane	550 µg/L
CO_2	93 mg/L

PZ012	
Ammonia	2.8 mg/L
TKN	5.2 mg/L
Sulfide	0.8 J mg/L
Sulfate	450 mg/L
DOC	9 mg/L
Alkalinity	780 mg/L
Methane	6300 µg/L
CO_2	347 mg/L

G0098	
Ammonia	2.4 mg/L
TKN	3.7 mg/L
Sulfide	0.8 J mg/L
Sulfate	65 mg/L
DOC	8.6 mg/L
Alkalinity	450 mg/L
Methane	12000 µg/L
CO_2	200 mg/L

G0109	
Ammonia	0.56 mg/L
TKN	0.97J mg/L
Sulfide	2.4J mg/L
Sulfate	120 mg/L
DOC	2.9 mg/L
Alkalinity	270 mg/L
Methane	630 µg/L
CO_2	120 mg/L

PZ016	
Nitrate/ Nitrite	7.9 mg/L
Sulfide	0.8 J mg/L
Sulfate	91 mg/L
DOC	3.9 mg/L
Alkalinity	350 mg/L
Methane	190 µg/L
CO_2	156 mg/L

G0121	
Ammonia	24 mg/L
TKN	44 mg/L
Nitrate/ Nitrite	0.05 J mg/L
Sulfide	4.8 mg/L
Sulfate	45 mg/L
DOC	650 mg/L
Alkalinity	660 mg/L
Methane	10000 µg/L
CO_2	293 mg/L

G0115	
Ammonia	3.8 J mg/L
TKN	4.2 J mg/L
Sulfide	0.8 J mg/L
Sulfate	420 J mg/L
DOC	10 J mg/L
Alkalinity	820 mg/L
Methane	11000 J µg/L
CO_2	364 J mg/L

G0096	
Ammonia	4.3 mg/L
TKN	6.1 J mg/L
Nitrate/Nitrite	6.8 J mg/L
Sulfide	0.8J mg/L
Sulfate	72 mg/L
DOC	46 mg/L
Alkalinity	490 mg/L
Methane	5900 µg/L
CO_2	218 mg/L

G0097	
Ammonia	2.2 mg/L
TKN	5.3 mg/L
Nitrate/Nitrite	0.03 J mg/L
Sulfate	130 mg/L
DOC	18 mg/L
Alkalinity	620 mg/L
Methane	10000 µg/L
CO_2	276 mg/L

G0120 G0080 G0087 G0086 G0088 G0081 G0089 G0082 G0090

NW050 NW080

CAPITIAL AVENUE

HIGHWAY

ROAD

SANITARY LANDFILL

LOAD LINE

MAGAZINES

N

0 3000 6000

SCALE FEET

LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- OFF-POST GROUNDWATER MONITORING WELL
- PZ015 DETECTED NATURAL ATTENUATION PARAMETERS – MAY 2021
- 2 HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (2,4,6–TNT CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (2,4,6–TNT CONCENTRATIONS >20µg/L) – MAY/JUNE 2021
- 2 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) – MAY/JUNE 2021

2,4,6–TNT = 2,4,6–TRINITROTOLUENE
CO2 = CARBON DIOXIDE
DOC = DISSOLVED ORGANIC CARBON
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
OU = OPERABLE UNIT
RDX = HEXAHYDRO–1,3,5–TRINITRO–1,3,5–TRIAZINE
TKN = TOTAL KJELDAHL NITROGEN
µg/L = MICROGRAMS PER LITER

NOTE:
EXPLOSIVES PLUME BASED ON 2021 SAMPLING RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

Bruce ENGINEERING AECOM

SHALLOW GROUNDWATER
LABORATORY NATURAL ATTENUATION PARAMETERS
(OU1) MAY/JUNE 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/31/21	PROJECT NO. 60565355	FIG. NO. 6–1a
CHK'D. BY: DC	DATE: 08/31/21		

September 14, 2021 12:47:49 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\6-01a.dwg

G0080	
Ammonia	1.3 mg/L
TKN	2.1 mg/L
Nitrate/ Nitrite	1.4 mg/L
Sulfide	0.8 J mg/L
Sulfate	100 mg/L
DOC	8.3 mg/L
Alkalinity	270 mg/L
Methane	1.1 µg/L
CO_2	120 mg/L

G0075	
Nitrate/ Nitrite	3.3 mg/L
Sulfate	190 mg/L
DOC	2.7 mg/L
Alkalinity	290 mg/L
CO_2	129 mg/L

NW021	
Ammonia	1.5 mg/L
TKN	1.7 mg/L
Nitrate/ Nitrite	0.87 mg/L
Sulfide	0.8 J mg/L
Sulfate	200 mg/L
DOC	3.3 mg/L
Alkalinity	340 mg/L
Methane	34 µg/L
CO_2	151 mg/L

G0092	
Sulfide	0.8 J mg/L
Sulfate	350 mg/L
DOC	2.7 mg/L
Alkalinity	360 mg/L
Methane	3.6 µg/L
CO_2	160 mg/L

NW061	
Ammonia	2.4 mg/L
TKN	1.8 mg/L
Nitrate/ Nitrite	9.8 mg/L
Sulfate	150 mg/L
DOC	4.7 mg/L
Alkalinity	290 mg/L
Methane	28 µg/L
CO_2	129 mg/L

CA211	
Nitrate/ Nitrite	32 mg/L
Sulfate	89 mg/L
DOC	4.7 mg/L
Alkalinity	180 mg/L
CO_2	80 mg/L

G0077	
Nitrate/ Nitrite	9 mg/L
Sulfide	0.8 J mg/L
Sulfate	140 mg/L
DOC	4.4 mg/L
Alkalinity	310 mg/L
Methane	530 µg/L
CO_2	138 mg/L

G0086	
Nitrate/ Nitrite	5.4 mg/L
Sulfate	180 mg/L
DOC	3 mg/L
Alkalinity	310 mg/L
Methane	14 µg/L
CO_2	138 mg/L

G0088	
Ammonia	0.07 J mg/L
Nitrate/ Nitrite	0.81 mg/L
Sulfate	260 mg/L
DOC	3.2 mg/L
Alkalinity	300 mg/L
Methane	11 µg/L
CO_2	133 mg/L

G0089	
Ammonia	0.11 mg/L
TKN	0.84 J mg/L
Nitrate/ Nitrite	1.5 mg/L
Sulfate	100 mg/L
DOC	4.5 mg/L
Alkalinity	370 mg/L
Methane	2100 µg/L
CO_2	164 mg/L

G0090	
Nitrate/ Nitrite	5.1 mg/L
Sulfate	150 mg/L
DOC	3.5 mg/L
Alkalinity	310 mg/L
Methane	17 µg/L
CO_2	138 mg/L

G0082	
Ammonia	0.19 mg/L
TKN	0.96 J mg/L
Nitrate/Nitrite	2.8 mg/L
Sulfate	99 mg/L
DOC	4.9 mg/L
Alkalinity	370 mg/L
Methane	850 µg/L
CO_2	164 mg/L

G0081	
Nitrate/Nitrite	3.6 mg/L
Sulfate	140 mg/L
DOC	3.6 mg/L
Alkalinity	280 mg/L
Methane	76 µg/L
CO_2	124 mg/L

G0087	
Nitrate/ Nitrite	8.2 mg/L
Sulfide	0.8 J mg/L
Sulfate	110 mg/L
DOC	2.8 mg/L
Alkalinity	290 mg/L
CO_2	129 mg/L

NORTH MAGAZINES

SANITARY LANDFILL

PISTOL RANGE

LOADLINE 4

LOADLINE 3

LOADLINE 2

LOADLINE 5

NW051 NW081R NW070 NW071

G0063 G0104 G0105 G0102 G0107 G0103 G0108

PZ005 PZ007 G0045 G0017

PZ009 PZ010 PZ014 G0116 PZ011 PZ013 G0111 PZ012 G0066R G0115 G0095 G0100 G0101

G0083 G0093 G0022 G0084 G0112 G0113 G0096 G0108 G0085 G0097 G0023 PZ015 G0094 G0110 G0099 PZ016 G0109 G0067

PZ020 G0024 PZ017 PZ018 PZ019

G0044 PZ001 PZ004

LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- 1 SURFACE DRAINAGE SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- PZ015 DETECTED NATURAL ATTENUATION PARAMETERS – MAY 2021
- 2 HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >2µg/L) – MAY 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >20µg/L) – MAY 2021
- 2 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) – MAY 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) – MAY 2021

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
CO2 = CARBON DIOXIDE
DOC = DISSOLVED ORGANIC CARBON
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
TKN = TOTAL KJELDAHL NITROGEN
µg/L = MICROGRAMS PER LITER

NOTE:
1. EXPLOSIVES PLUME BASED ON 2021 SAMPLING RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

N

0 2000 4000
SCALE FEET

Bruce ENGINEERING AECOM

SHALLOW-INTERMEDIATE GROUNDWATER
LABORATORY NATURAL ATTENUATION PARAMETERS
(OU1) MAY/JUNE 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 6-1b
CHK'D. BY: DC	DATE: 08/30/21		

September 14, 2021 12:49:05 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\6-01b.dwg

NORTH MAGAZINES

SANITARY LANDFILL

PISTOL RANGE

LOADLINE 1

LOADLINE 2

LOADLINE 3

LOADLINE 4

LOADLINE 5

SHOP AREA

G0076		
Ammonia	1.6	mg/L
TKN	1.8	mg/L
Sulfate	320	mg/L
DOC	3.4	mg/L
Alkalinity	370	mg/L
Methane	210	µg/L
CO_2	164	mg/L

G0078		
Ammonia	0.29	mg/L
TKN	0.7 J	mg/L
Sulfide	0.8 J	mg/L
Sulfate	270	mg/L
DOC	2.9	mg/L
Alkalinity	320	mg/L
Methane	130	µg/L
CO_2	142	mg/L

NW062		
Ammonia	1	mg/L
Nitrate/Nitrite	0.05 J	mg/L
Sulfate	190	mg/L
DOC	2.9	mg/L
Alkalinity	270	mg/L
Methane	7.6	µg/L
CO_2	120	mg/L

NW022		
Ammonia	1.4 J	mg/L
TKN	1.4	mg/L
Sulfide	0.8 J	mg/L
Sulfate	250	mg/L
DOC	3.4 J	mg/L
Alkalinity	430	mg/L
Methane	430 J	µg/L
CO_2	191	mg/L

CA212		
Nitrate/ Nitrite	14	mg/L
Sulfide	0.8 J	mg/L
Sulfate	68	mg/L
DOC	2.4	mg/L
Alkalinity	170	mg/L
CO2	75.6	mg/L

NW071		
Nitrate/ Nitrite	32	mg/L
Sulfide	0.8 J	mg/L
Sulfate	63	mg/L
DOC	3.2	mg/L
Alkalinity	110	mg/L
CO_2	49	mg/L

G0045		
Ammonia	2.1	mg/L
TKN	2	mg/L
Sulfide	0.8 J	mg/L
Sulfate	1300	mg/L
DOC	6	mg/L
Alkalinity	470	mg/L
Methane	0.79 J	µg/L
CO_2	209	mg/L

G0049		
Ammonia	1.5	mg/L
TKN	1.7	mg/L
Sulfide	0.8 J	mg/L
Sulfate	400	mg/L
DOC	3.2	mg/L
Alkalinity	310	mg/L
Methane	3.3 J	µg/L
CO_2	138	mg/L

LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- PZ015 — DETECTED NATURAL ATTENUATION PARAMETERS – MAY 2021
- 2 — HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 — HORIZONTAL EXTENT OF TARGET EXPLOSIVES (2,4,6-TNT CONCENTRATIONS >20µg/L) – MAY/JUNE 2021
- 2 — HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 — HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) – MAY/JUNE 2021

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
CO2 = CARBON DIOXIDE
DOC = DISSOLVED ORGANIC CARBON
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
TKN = TOTAL KJELDAHL NITROGEN
µg/L = MICROGRAMS PER LITER

NOTE:
1. EXPLOSIVES PLUME BASED ON 2021 SAMPLING RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

N

0 2000 4000
SCALE FEET

Bruce ENGINEERING AECOM

INTERMEDIATE GROUNDWATER
LABORATORY NATURAL ATTENUATION PARAMETERS
(OU1) MAY/JUNE 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/31/21	PROJECT NO. 60565355	FIG. NO. 6-1c
CHK'D. BY: DC	DATE: 08/31/21		

September 14, 2021 12:50:24 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\6-01c.dwg

NORTH MAGAZINES

SANITARY LANDFILL

PISTOL RANGE

LOADLINE 4

LOADLINE 3

LOADLINE 2

LOADLINE 1

LOADLINE 5

SHOP AREA

N. 6

ENGLE

G0070	
Sulfate	44 mg/L
DOC	1.1 mg/L
Alkalinity	220 mg/L
CO_2	98 mg/L

CA213	
Nitrate/Nitrite	1.5 mg/L
Sulfate	60 mg/L
DOC	2 mg/L
Alkalinity	130 mg/L
CO_2	57.8 mg/L

G0063 G0105 G0104 G0107 G0102 G0103 G0106

PZ005

PZ007

G0045 G0017

PZ009 PZ010 PZ014 PZ011 G0117 G0116 PZ013 G0066R G0100 G0111 PZ012 G0095 G0101 G0115

G0093 G0084 G0112 G0096 G0108 G0089 G0085 G0097 G0023 G0090 G0094 PZ015 G0099 PZ016 G0109 G0110 G0067

G0091 G0092

G0080 G0087 G0083 G0086 G0088 G0022 G0081 G0082

NW020 PZ020 G0024 PZ017R PZ018 PZ019

NW060 NW050 NW080 NW070

PZ001 PZ004 G0044

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON–POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- NW070 DETECTED NATURAL ATTENUATION PARAMETERS – MAY 2021

- 2 HORIZONTAL EXTENT OF TARGET CLEANUP EXPLOSIVES (2,4,6–TNT CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (2,4,6–TNT CONCENTRATIONS >20µg/L) – MAY/JUNE 2021
- 2 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) – MAY/JUNE 2021
- 20 HORIZONTAL EXTENT OF TARGET EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) – MAY/JUNE 2021

2,4,6–TNT = 2,4,6–TRINITROTOLUENE
CO2 = CARBON DIOXIDE
DOC = DISSOLVED ORGANIC CARBON
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
OU = OPERABLE UNIT
RDX = HEXAHYDRO–1,3,5–TRINITRO–1,3,5–TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
EXPLOSIVES PLUME BASED ON 2021 SAMPLING RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

N

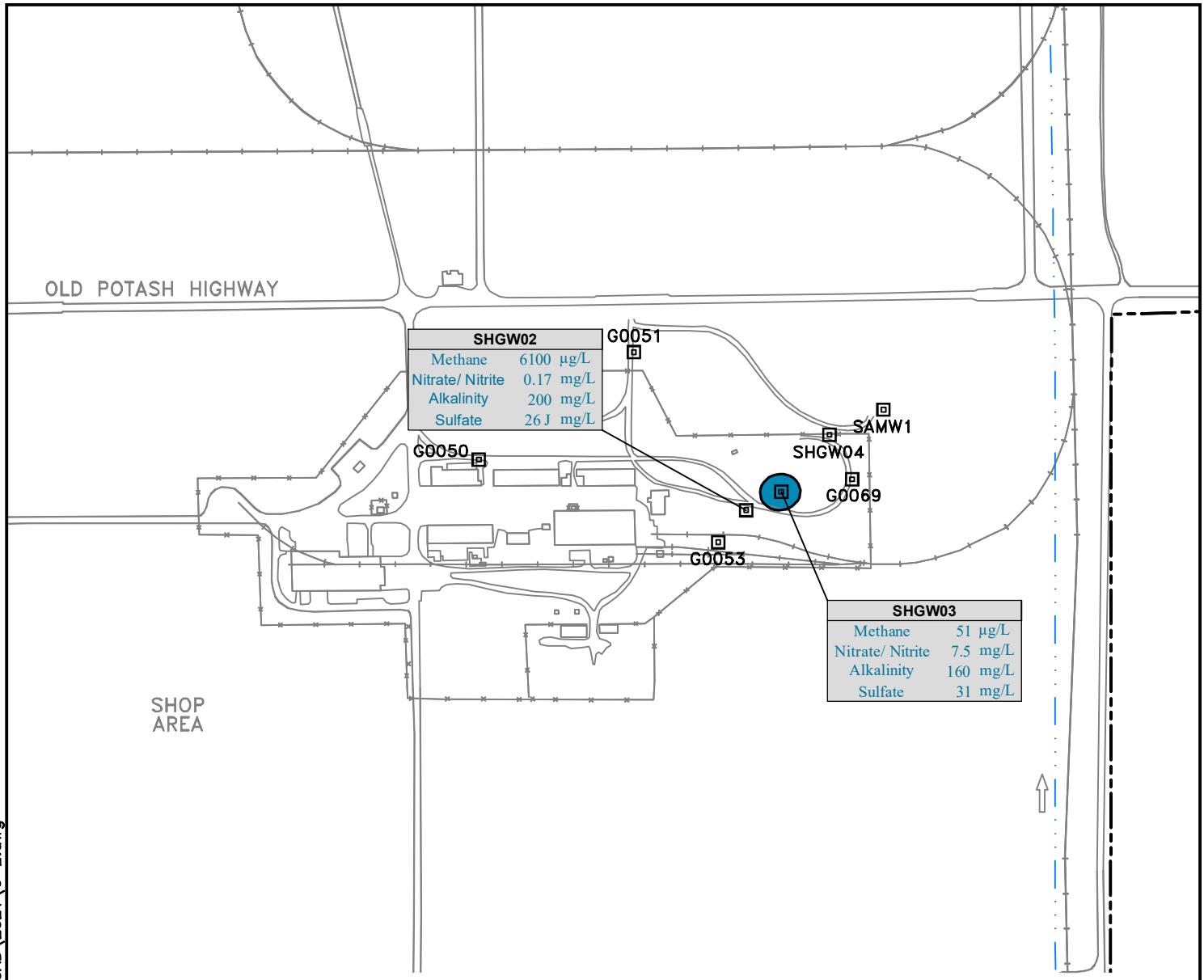
0 2000 4000
SCALE FEET

Bruce ENGINEERING AECOM

DEEP GROUNDWATER
LABORATORY NATURAL ATTENUATION PARAMETERS
(OU1) MAY/JUNE 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/31/21	PROJECT NO. 60565355	FIG. NO. 6–1d
CHK'D. BY: DC	DATE: 08/31/21		

August 31, 2021 8:43:02 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\6-01d.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCLs (1,1,2-TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SHGW02 — VOC GROUNDWATER SAMPLING RESULTS – MAY 2021

1,1,2-TCA = 1,1,2-TRICHLORETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
mg/L = MILLIGRAMS PER LITER
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND

N

0 500 1000

SCALE FEET

Brice ENGINEERING AECOM

SHALLOW GROUNDWATER
NATURAL ATTENUATION PARAMETERS
SHOP AREA (OU3) MAY 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/31/21	PROJECT NO. 60565355	FIG. NO. 6-2
CHK'D. BY: DC	DATE: 08/31/21		

August 31, 2021 8:48:08 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\6-2.dwg

7.1 GROUNDWATER FLOW MODELING

The approach, methods, and assumptions used to simulate groundwater flow conditions at CHAAP are discussed in the following sections. A more detailed description of the construction of the groundwater flow model is presented in Groundwater Flow and Contaminant Fate and Transport Modeling, Cornhusker Army Ammunition Plant, Grand Island, Nebraska (URS 2001).

7.1.1 Groundwater Flow Modeling Approach and Methodology

Groundwater flow conditions at the site were simulated using the U.S. Geological Survey (USGS) Modular Three-Dimensional Finite-Difference Groundwater Flow Model (MODFLOW) (McDonald and Harbaugh 1988). The MODFLOW model was constructed using Visual MODFLOW (VMODFLOW) (Guiger and Franz 1995) Version 4.6.0.169; updated in 2021. VMODFLOW is a pre-processor and does not affect the results generated by running MODFLOW.

7.1.2 Project Uses of the Flow Model

The initial groundwater flow model was developed to predict extraction well capture zones using MODFLOW Particle-tracking Model (MODPATH), the USGS advective particle tracking model. The current remedial system was optimized for maximum containment of the on-post explosives plume using the groundwater flow model; however, in October 2019, the OU1 Rebound Study was initiated (approximately 2-year duration) and pumping at the only operating extraction well (EW7) was temporarily discontinued (set to 0 gpm) and is being maintained in a "standby" status. The groundwater flow model was also used in conjunction with Modular Transport, 3-dimensional, Multi-species Model (MT3DMS), a numerical contaminant fate and transport model (Zheng and Wang 1999), to simulate baseline contaminant (e.g., RDX and TNT) transport and transport under remedial injection conditions.

As a supplement to the OU1 Rebound Study, subsurface injections were completed in October-November 2019 and October-November 2020 to address the residual plumes between EW6 and EW7 and at residual source areas at LL1, LL2, and the Decant Station. These injections have been included in the 2021 modeling evaluation. For the purposes of the groundwater flow model calibration, LL1 and LL2 are grouped with the area between EW6 and EW7 and are collectively referred to as the OU1 RAO on-post area. However, in the contaminant fate and transport section (**Section 7.2**), the load lines are evaluated separately from the rest of the on-post area to determine the amount of mass reduction in the OU1 RAO Load Line Treatment Areas and the OU1 RAO Between EW6 and EW7 Treatment Area as a result of previous subsurface injection activities.

The groundwater flow model was recalibrated using the May 2021 site-wide water level measurement round. The result of the recalibration is presented in **Section 7.1.5**. Following the groundwater flow model recalibration, the model was used in conjunction with MT3DMS (**Section 7.2**) to estimate RDX and TNT mass in the OU1 RAO Load Line Treatment Areas and the Between EW6 and EW7 Treatment Area. The percent RDX and TNT mass reduction between the 2020 and

2021 groundwater monitoring events was calculated to show changes in plume mass between sampling events.

7.1.3 Modeling Assumptions

The assumptions for the groundwater flow modeling effort included the following:

- General MODFLOW model code assumptions (listed in Groundwater Flow and Contaminant Fate and Transport Modeling, Cornhusker Army Ammunition Plant, Grand Island, Nebraska [URS 2001]), which include single calculated head values within each individual cell, completely efficient wells/sinks/sources, and uniformly porous aquifer materials.
- Only steady state groundwater flow conditions were modeled. It was assumed that steady state conditions would be achieved relatively quickly.
- Irrigation well pumping was not included in the groundwater flow model simulations. Historical contaminant migration data and plume geometry indicate irrigation wells have not significantly impacted the groundwater flow over time.
- Constant head boundary conditions and general head boundary (GHB) conditions, set along edges of the active model domain, would not significantly influence model results in the local areas of interest.
- Only nonreactive, advective particle transport was simulated by MODPATH.

7.1.4 Model Setup and Input Parameters

A single, multi-layered flow model was used to simulate groundwater flow in the unconfined water table aquifer (Grand Island Formation) at CHAAP. The finite-difference grid, model boundary conditions, and hydrogeologic input parameters are described below.

7.1.4.1 Finite-Difference Grid

The finite-difference grid was not changed from the refinements made during the 2015 modeling: small grid spacing in the on-post area to allow for a more detailed portrayal of RDX and TNT concentrations in the MT3DMS contaminant fate and transport model.

7.1.4.2 Model Boundary Conditions

Constant head boundary conditions representing the regional groundwater flow regime's influence on local conditions were set along the southwestern and northeastern edges of the model. Constant head boundaries were estimated based on actual water level measurements and were adjusted during the groundwater flow model recalibration. Placement and use of the constant head boundaries followed the same method used in the 2020 version of the model (Brice-AECOM 2021b).

GHBs were adjusted along the northwestern and southeastern model borders when the groundwater flow model was recalibrated. The GHBs represent hydrogeologic conditions outside the model boundaries that potentially affect the groundwater flow within the model.

7.1.4.3 Hydrogeologic Input Parameters

Each node of each layer in the model was defined with site-specific hydrogeologic parameters. Model input values were based on geologic and hydrogeologic characteristics of the units, published values typical for each unit, aquifer pumping tests, aquifer slug tests (Dames and Moore 1995) and model calibration, sensitivity analysis, and verification. A full description of the hydrogeologic model input parameters is presented in Groundwater Flow and Contaminant Fate and Transport Modeling, Cornhusker Army Ammunition Plant, Grand Island, Nebraska (URS 2001). These parameters were not changed in the current version of the model except for the following:

- **Horizontal Hydraulic Gradient.** Average hydraulic gradients were simulated for the alluvial aquifer by varying hydrogeologic parameters, constant head boundary conditions, and GHB conditions. Hydraulic gradients were adjusted for the flow model recalibration using the May 2021 water levels. A potentiometric surface map generated from water levels observed during May 2021 is presented in **Appendix F** as **Figure F-1**.
- **Extraction Well Operation.** On October 28, 2019, the approved OU1 Rebound Study began and pumping at EW7 was discontinued (set to 0 gpm). The model was updated to include no active pumping at OU1.

7.1.5 Groundwater Flow Calibrations

The groundwater flow model was calibrated to the May 2021 water levels. Calibration was achieved by adjusting the model input values, including estimated constant head boundary and GHBs adjustments to current conditions (May 2021), as discussed in **Section 7.1.4**. The calibration configuration and statistics showing acceptable calibration are discussed in the following subsections.

7.1.5.1 Calibrated Groundwater Flow Configuration

The May 2021 water table is shown on **Figure F-1**. In general, groundwater flow direction, hydraulic gradient, and hydraulic head closely matched the interpreted data (**Tables F-1** and **F-2**).

The major sources of calibration error in the model were related to the areas of undefined geology and hydrogeology in the northeast part of the model domain. However, this area was a relatively small portion of the model, several miles from the extraction well system, and did not significantly affect the overall model results. The final aquifer parameter values were set in these areas such that the model results would closely match their respective water level inputs. Conversely, the geologic profile and hydrogeologic parameters around the extraction wells have been fully defined

based on several years of investigation and monitoring. Each year, new data are generated and incorporated into the model to better predict groundwater flow conditions and contaminant fate and transport.

7.1.5.2 Calibration Statistics for the May 2021 Water Level Event

The model was calibrated to water levels measured in 66 monitoring wells and piezometers during the May 2021 groundwater monitoring event. The calculated differences between baseline model-estimated water levels and observed water levels are presented in **Table F-1**. A summary of the calibration statistics calculated for each flow regime (i.e., on-post, off-post, and City of Grand Island) is shown in **Table F-2**. The mean absolute differences between observed hydraulic heads and simulated hydraulic heads in each flow regime were as follows:

- On-Post Area: 0.449 foot
- Off-Post Area: 0.404 foot
- City of Grand Island: 0.466 foot
- Overall Model: 0.447 foot

Calibration statistics indicated the recalibrated flow model portrayed the hydrogeologic setting at CHAAP sufficiently to satisfy the data quality objectives of this project. The normalized root mean square was 1.583 percent (the goal was below 5 percent), and the correlation coefficient was 0.997 (a value of 1.0 indicates perfect correlation) between the observed and model-calculated data points.

Average model calibration residuals within 5 percent of the total head variation were considered adequate, given the 28.2-foot head variant across the model area. The calibrated model head residual value for the overall model was 1.583 percent of the total head change, indicating statistically excellent model calibration.

7.2 GROUNDWATER CONTAMINANT FATE AND TRANSPORT MODEL EVALUATION

The objectives of the numerical contaminant fate and transport evaluation were to:

- Estimate the reduction of RDX and TNT mass in the OU1 RAO Load Line Treatment Areas as a result of the 2020 subsurface injections and natural degradation processes. These mass estimations were used to determine percent mass reduction in the Load Line Treatment Areas between June 2020 and May/June 2021.
- Estimate the reduction of RDX and TNT mass in the OU1 RAO Between EW6 and EW7 Treatment Area as a result of the 2019 and 2020 subsurface injections and natural degradation processes. These mass estimations were used to determine percent mass

reduction in the Between EW6 and EW7 Treatment Area between June 2020 and May/June 2021.

- Evaluate the short-term changes (June 2020 to May/June 2021) in the distribution of the on-post RDX and TNT plumes.
- Evaluate the long-term changes (>20 years) in the distribution of the on-post RDX and TNT and predict site remediation time frames (**Section 7.2.6**).

In the short-term evaluations, percent mass reduction estimates for RDX and TNT were made by comparing the June 2020 groundwater monitoring event conditions and the May/June 2021 groundwater monitoring event conditions (includes 2020 subsurface injection performance monitoring data from May/June 2021). Input parameters for each condition were updated using current contaminant concentrations.

Long-term evaluations were completed to predict contaminant fate and transport over time and to estimate long-term percent mass reduction for RDX and TNT. The long-term evaluations were based on current (May/June 2021) contaminant concentrations, past and current contaminant fate and transport conditions, and current remedial actions (subsurface injection).

The approach, methods, and assumptions used to estimate RDX and TNT mass at CHAAP are discussed in the following sections. A more detailed description of the original construction of the fate and transport model is presented in Groundwater Flow and Contaminant Fate and Transport Modeling, Cornhusker Army Ammunition Plant, Grand Island, Nebraska (URS 2001).

7.2.1 Contaminant Fate and Transport Modeling Approach and Methods

Contaminant fate and transport of explosives was simulated using MT3DMS (Zheng and Wang 1999), a three-dimensional, block-centered, finite-difference, numerical transport model. MT3DMS retrieves the hydraulic heads, flow terms, and source sink terms from the MODFLOW groundwater flow model results and calculates chemical concentrations over time. The MT3DMS models were constructed using VMODFLOW. VMODFLOW is a pre- and post-processor and does not affect results generated by running MT3DMS.

The contaminant fate and transport model was used to calculate RDX and TNT mass present at the time of the June 2020 and May/June 2021 groundwater monitoring events. The results generated using the June 2020 model served as the baseline model. A new version of the model was created using the May/June 2021 groundwater monitoring data (includes 2020 subsurface injection performance monitoring data from May/June 2021). The same model grid dimensions, groundwater configurations, and flow parameters used in the groundwater flow model were used in both versions of the transport model.

To obtain the long-term mass estimates, the May/June 2021 version of the model was set to run for 25 years. Degradation rates have been enhanced by the effects of injections from 2007 to 2020 and, based on the current conditions (annual concentrations and water level measurements) and

input parameters, these updated rates were used in the 2021 long-term scenario to predict future explosives degradation rates over time (**Sections 7.2.3** and **7.2.6**).

7.2.2 Modeling Assumptions

MT3DMS uses chemical characteristic input values to calculate contaminant dispersion and degradation and MODFLOW output to calculate advection (MT3DMS accounts for the effects of sorption/desorption, dispersion, and natural degradation (biotic and abiotic) or other chemical reactions that can be simulated with a first-order decay rate term for the removal of a chemical from the modeled system. The model cannot simulate more complicated chemical reactions, such as precipitation/dissolution based on changing local conditions, the rate of exhaustion of bionutrients based on variable uptake by indigenous microorganisms, or the transformation of a chemical into a degradation by-product.

In general, modeling assumptions followed those presented in Groundwater Flow and Contaminant Fate and Transport Modeling, Cornhusker Army Ammunition Plant, Grand Island, Nebraska (URS 2001). Key assumptions for this modeling effort included the following:

- The steady-state MODFLOW model assumptions, setup, and results are appropriate for the contaminant transport model.
- Irrigation well pumping (estimated at approximately 800 to 1,200 gpm per well) was not included in the groundwater contaminant fate and transport modeling simulations due to the varying pumping rates and inconsistent usage (seasonal needs and owner's discretion). Historical contaminant migration data and plume geometry indicate irrigation wells have not significantly impacted contaminant migration patterns over time and would not affect the contaminant mass estimates.
- Dissolved RDX and TNT concentrations from the May/June 2021 groundwater monitoring event were used to interpret isoconcentration maps. These isoconcentration maps were used as model input concentrations.
- Current dissolved concentrations near the source areas at LL1 and LL2 were used as the initial values for residual source concentrations.
- RDX and TNT are subject to adsorption, dispersion, and biodegradation approximated with first-order decay rates as they are transported through the saturated zone.

7.2.3 Contaminant Fate and Transport Model Setup and Input Parameters

The CHAAP contaminant transport model was constructed using the same overall model setup and sensitivity evaluations (URS 2001) as the MODFLOW groundwater flow model. The groundwater flow components were described in **Section 7.1**. The chemical specific input parameters, which were modified from the previous version of this model, are discussed below.

7.2.3.1 Initial Target Compound Concentrations

Initial RDX and TNT concentrations were entered into VMODFLOW to reflect the June 2020 and May/June 2021 contaminant concentrations at CHAAP. Initial concentrations were based on the actual RDX and TNT concentrations, as presented in **Section 5**. The June 2020 annual groundwater LTM event results were used for the June 2020 fate and transport model. The May 2021 annual groundwater LTM event and Q6 subsurface injection performance monitoring event (June 2021) were used to generate the May/June 2021 initial contaminant concentrations. Further discussion on the 2020 to 2021 mass comparison is provided in **Section 7.2.5**. **Figures F-2** through **F-5** show the June 2020 model input concentrations (for comparison purposes) and May/June 2021 model input concentrations for RDX and TNT.

Groundwater sampling results indicated RDX and TNT contamination was present only within the top 15 to 20 feet of groundwater in the OU1 RAO on-post plume areas. To simulate this environment, model layers 1 and 2 (out of 3) were assigned the RDX and TNT initial concentrations shown on **Figures F-2** through **F-5**. Layer 3, which represents the bottom 13 feet of the aquifer at CHAAP, was not assigned RDX and TNT initial concentrations (initial concentrations were input with a value of zero).

Once the initial May/June 2021 RDX and TNT concentrations were entered into model layers 1 and 2, the model was run to determine the amount of mass and mass reduction in the entire OU1 RAO on-post plume areas. To separately evaluate the two on-post areas (OU1 RAO Load Line Treatment Areas and Between EW6 and EW7 Treatment Area), new, duplicate versions of the models were created. In these new versions of the model, the OU1 RAO Load Lines and Between EW6 and EW7 Treatment Areas were selected as an active transport zone and allowed to run. Using this modeling technique, it was possible to calculate the amount of mass and mass reduction in the OU1 RAO Load Lines and Between EW6 and EW7 Treatment Areas.

7.2.3.2 Residual Source Concentrations

Residual source concentrations are residual sources of contamination that do not move and slowly degrade during the model's run-time. At CHAAP, these locations represent areas where RDX and TNT continue to add contaminant mass to the aquifer (residual source areas). Based on groundwater contaminant concentration trends near and downgradient of the former melt/pour buildings and previously excavated explosives wastewater cesspools at LL1 and LL2, it was interpreted that residual sources remained just to the east of the former locations of these features, and at various locations at LL1. Based on historical well sampling results and direct push groundwater vertical profile sampling results, it is interpreted that the residual sources are located in the top 10 to 15 feet of the subsurface, and during periods of lower water levels (where depth to water is more than 15 feet bgs), the residual sources slowly leach into the groundwater through precipitation. It was also interpreted that during the periods of higher water levels (where depth to water is between 5 and 15 feet bgs), the residual sources come into contact with the groundwater, causing more rapid dissolution and desorption of explosives. The residual source concentrations used in the 2020 version of the model (Brice-AECOM 2021b) were adjusted because the 2021

groundwater monitoring events improved source location and concentration data. These new locations and concentrations more accurately represented the site conditions at CHAAP at the time of the 2021 groundwater monitoring events. Based on historic concentrations in the source areas, the residual source concentrations in the model were assigned half-life values of 1.0 years for RDX and TNT if they were in an active injection treatment zone; otherwise they were assigned a half-life of 2.0 years. **Figure F-6** shows the values and locations of the residual source concentrations. **Table F-3** summarizes the model input parameters used for each contaminant.

7.2.3.3 Contaminant Transport Model Input Parameters

MT3DMS requires the user to define the contaminant model (e.g., RDX and TNT) with a number of site-specific and chemical-specific input parameters and to make some simplifying assumptions based on existing site information. Contaminant fate and transport input values are summarized in **Table F-3** and in the Groundwater Flow and Contaminant Fate and Transport Modeling, Cornhusker Army Ammunition Plan, Grand Island, Nebraska (URS 2001). Most recent decay rate constants calculations are included in Appendix G of the Final 2015 Groundwater Annual Monitoring and Subsurface Injection Report (BW-URS 2017a) (discussed in **Section 6.4**). The model input parameters were based on the hydrogeologic characteristics of the model layers, site chemical and geotechnical analyses, and estimates of chemical characteristics from recent literature values. The following input parameters were altered from the previous version of the model:

- **Time.** MT3DMS used the steady-state, time-independent flow field generated by MODFLOW to simulate contaminant fate and transport over time. For the short-term evaluations, each model was run under steady-state conditions for 1 day to obtain estimated RDX and TNT masses. For the long-term evaluation, the 2021 model was run under steady state flow conditions for 25 years to obtain estimated RDX and TNT masses over time.
- **Biodegradation Half-life.** Historical concentration data were used to establish contaminant reduction trends and estimate biodegradation half-lives (URSGWCFS 1999). The methods of Graves (1995) and Buscheck and Alcantar (1995) were used to establish a range of estimated half-lives for RDX and TNT.
  - **Natural Attenuation Half-life.** In the 2007 through 2020 contaminant fate and transport models, assigned half-life values for RDX and TNT were 7.3 and 5.7 years, respectively. Data collected in recent years from the OU1 RAO on-post plume area not impacted by recent subsurface injections indicated that the assigned reduced half-life values were appropriate and therefore, these half-life values were not adjusted in the 2021 contaminant fate and transport model.
  - **Treatment Zone Half-life.** To simulate the 2020 treatment zones, representative sections of the model correlating to the injection zone locations were assigned reduced half-life values of 0.12 and 0.19 year for RDX and TNT, respectively. The 2019 treatment zones were assigned reduced half-life values of 0.92 years for RDX and 0.86 years for TNT. Additionally, locations downgradient from the injection

zones were assigned reduced half-life values of 0.92 to 5.85 years for RDX and 0.86 to 2.88 years for TNT. The downgradient half-life values were calculated from historical concentration data collected at downgradient monitoring locations where injections occurred between 2007 and 2015. **Figure F-7** shows the locations of the 2019 and 2020 treatment zones entered into the model. Treatment zones injected prior to 2019 were set to natural attenuation in the 2020 model, because their effectiveness is likely significantly diminished. Although this conservative approach was selected, it is likely that the residual effects of subsurface injections completed prior to 2019 remain and will help future injections rapidly reestablish highly anaerobic treatment zones in those areas. **Table F-3** presents the half-life values used for the 2019 and 2020 treatment zones.

— **Feedlot Half-life.** To better simulate the actual aquifer conditions underlying the downgradient feedlot area, reduced half-life values of 3.6 years for RDX and 2.4 years for TNT were assigned to the footprint of the feedlot in all three layers of the 2021 model (see **Figure F-7**).

7.2.4 Contaminant Fate and Transport Model Calibration and Limitations

The contaminant fate and transport model setup and input parameters were calibrated to accurately simulate the extent of the current explosives plume. This effort included qualitative model calibration and understanding the limitations of the model predictions.

7.2.4.1 Contaminant Fate and Transport Model Calibration

The 2021 contaminant fate and transport model was calibrated to May/June 2021 conditions using real, field-observed values from the May/June 2021 groundwater monitoring events. The model was then allowed to run for 1 day to reach equilibrium. Model-generated concentration maps for each contaminant were compared to real-world data for accuracy.

7.2.4.2 Contaminant Fate and Transport Model Limitations

Limitations of the contaminant fate and transport model are directly related to the model assumptions presented earlier in this section and in **Appendix F**. These limitations included a single concentration value within each cell, equilibrium-controlled sorption/desorption, and irreversible linear decay rates. The model input parameters are provided in **Table F-3**. The largest limitations for the CHAAP site were:

- Residual source concentrations and dissolved explosive decay rates were estimated model input parameters and not model-calculated over time as the natural attenuation capacity of the aquifer (e.g., assimilative capacity) changed.
- Target explosives calibration was limited to interpreted plumes based on the May/June 2021 monitoring data and historic trends.

These limitations were compensated for by:

- Conservative mass input at the residual source concentration areas (likely overestimating mass)
- Conservative initial RDX and TNT concentrations (likely overestimating mass)
- Chemical- and location-specific degradation rates

7.2.5 2021 Modeling Results / 2020 and 2021 Mass Comparisons

The June 2020 to May/June 2021 explosives mass estimations and percent reduction for the OU1 RAO Load Line Treatment Areas, the area between EW6 and EW7, and the total area are provided in **Table 7-1** and **Table F-4 (Appendix F).** As discussed in **Section 7.2.1**, based on the methodology used, the fate and transport model likely overestimates the RDX and TNT mass remaining in the aquifer in May/June 2021 and underestimates the percent RDX and TNT mass reduction between June 2020 and May/June 2021.

Representative estimates of the explosives mass in the OU1 RAO Load Line Treatment Areas at the time of June 2020 monitoring event were 1.43 pounds of RDX and 0.68 pounds of TNT. Representative estimates of the explosives mass at the time of the May/June 2021 monitoring event were 1.43 pounds of RDX and 0.56 pounds of TNT. This is approximately a 5.7-percent mass decrease of RDX+TNT. This decrease in RDX+TNT mass can be attributed to successful reduction in concentrations due to the 2020 subsurface injections at LL1 and LL2, even with observed increases of RDX at select locations not addressed by 2020 injections (i.e., G0093 and G0099); however, the actual mass remains relatively small at the OU1 RAO Load Line Treatment Areas (**Table 7-1**).

By comparison, representative estimates of the June 2020 explosives mass in the OU1 RAO Between EW6 and EW7 Treatment Area were 1.25 pounds for RDX and 22.94 pounds for TNT. Representative estimates of the explosives mass at the time of the May/June 2021 sampling event in the same areas were 0.12 pounds for RDX and 19.67 pounds for TNT. This is approximately an 18-percent mass decrease for RDX+TNT (**Table 7-1**), even with observed increases of TNT at G0089 which was not addressed by 2019 or 2020 injections. This decrease in RDX+TNT mass can be attributed to successful reduction in concentrations due to the 2019 and 2020 subsurface injections between EW6 and EW7 (**Table 7-1**).

7.2.6 Long-Term Modeling Results / Mass Estimations

Following model recalibration and completion of mass estimations, contaminant transport modeling was used to predict long-term contaminant transport conditions. This modeling evaluation was completed with the MT3DMS contaminant fate and transport model. Contaminant fate and transport modeling simulations for RDX are shown on **Figures F-8** through **F-20**. Modeling simulations for TNT are shown on **Figures F-21** through **F-27**.

Under the above scenario, the model-predicted results indicated there is no further off-post migration of RDX or TNT, and the on-post RDX and TNT concentrations are reduced to below

the HALs in 13 and 7 years, respectively. These remediation times take into consideration the 2019 and 2020 injections in the residual source areas at LL1 and LL2 and concentrations between EW6 and EW7.

TABLE 7-1
EXPLOSIVES MASS ESTIMATIONS AND PERCENT REDUCTIONS
2021 ANNUAL REPORT

June 2020			
Explosives Parameter(s)	**Load Line Treatment Areas (mass in pounds)**	**Between EW6 and EW7 Treatment Area (mass in pounds)**	**Total Area (mass in pounds)**
RDX	1.43	1.25	2.68
TNT	0.68	22.9	23.6
RDX+TNT	2.11	24.1	26.2

May/June 2021					
Explosive Parameter(s)	**Load Line Treatment Areas (mass in pounds)**	**Between EW6 and EW7 Treatment Area (mass in pounds)**	**Total Area (mass in pounds)**	**Load Line Treatment Areas (percent reduction since 2020)[1]**	**Between EW6 and EW7 Treatment Area (percent reduction since 2020)[1]**
RDX	1.43	0.12	1.55	0.00%	90.8%
TNT	0.56	19.7	20.2	17.6%	14.3%
RDX+TNT	1.99	19.8	21.8	5.7%	18.0%

Notes:

[1] Percent of estimated mass reduction shown in positive values (negative percent indicates an estimated increase in mass).

The explosives mass was estimated using the CHAAP groundwater contaminant fate and transport model.

% = percent

CHAAP = Cornhusker Army Ammunition Plant

EW = extraction well

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene

8.1 OU1 OFF-POST GROUNDWATER EXPLOSIVES PLUME INSTITUTIONAL CONTROLS

The revised remedy for OU1 was established in the ROD Amendment (URSGWCFS 2001b, dated August 2001 and signed by USEPA on September 26, 2001). The OU1 remedy included institutional controls and actions designed to help prevent exposure to contaminated groundwater until contaminant concentrations throughout the plume area are at or below the cleanup levels (HALs and MCLs) discussed in **Section 5** of this report. As discussed in **Section 5**, explosives concentrations in all off-post wells sampled in May 2021 are below the HALs; however, institutional controls were still reviewed in accordance with the OU1 ROD Amendment. The following sections describe the off-post institutional controls and the annual 2021 review (including visual survey and City of Grand Island verifications) for each control. A summary of the 2021 institutional controls' effectiveness is included in **Table 8-1**.

8.1.1 City Ordinance Institutional Control/Action

The City of Grand Island established an "Overlay Zone" Ordinance that designates an institutional control area (Groundwater Control Area Number [No.] 2) within the corporate limits and additional zoning jurisdiction (2 miles outside city limits) of the City of Grand Island, in which it prohibits drilling drinking water supply wells. Per Grand Island City Code, chapter 35, article VII. Groundwater Control Area No. 2, the boundaries of Groundwater Control Area No. 2 shall be maintained in the Hall County – City of Grand Island Cooperative GIS using information supplied by the U.S. Army and modified in accordance with periodic monitoring data prepared by the U.S. Army and reviewed by the USEPA and NDEQ (City of Grand Island 2021). The Grand Island city limits with Overlay Zone are shown on **Figure 1-2**.

Although all off-post explosives plume concentrations are below the HALs, the City of Grand Island continues to monitor and enforce the ordinance by denying plumbing permits to connect residences to private wells near the previous explosives plume. On May 18, 2021, a visual survey was completed of the land parcels near the historic off-post explosives plume. The intent of the survey was to verify that no groundwater-impacting construction (construction requiring plumbing permits) was being completed. This survey was completed from the public right-of-way, and only minor utility work was observed. On September 16, 2021, the City of Grand Island Building Department was contacted, and it was confirmed that there are plumbing permit restrictions for private wells within the boundary of the Overlay Zone and that no plumbing permits for private well hookups were issued in the past 12 months.

Additionally, upon approval of the Final 2021 Annual Report, the Building Department will be sent updated, georeferenced computer-aided drafting files and a copy of the off-site map with May 2021 concentrations. The Building Department has indicated that the map with current concentrations will be kept on file and will be used in the future to enforce the ordinance.

Additionally, as local drilling controls, the Central Platte Natural Resources District (CPNRD) put into effect on January 5, 2016 a suspension on the drilling of new wells and the issuance of permits to construct new wells for groundwater use in fully and over appropriated areas in Grand Island

and surrounding areas. This suspension is for the installation of all wells including municipal, industrial, and irrigation wells and is still in effect. CPNRD's Groundwater Quantity Management Plan (CPNRD 2021) provides current rules and regulations for transfers, variances and offsets, and exemptions for groundwater use in fully and over appropriated areas, which includes 6 to 8 miles along the Platte River throughout the CPNRD and the CHAAP plume area. The CPNRD suspension of new well installation includes, but is not specific to, the CHAAP plume area.

8.1.2 Water Supply Institutional Control/Action

The City of Grand Island continues to supply potable water to all residences in the plume area and designated Overlay Zone. The Grand Island city limits and Overlay Zone are shown on **Figure 1-2**. On September 16, 2021, the City of Grand Island Building Department was contacted, and it was confirmed that all residences in the historic plume area (and the Overlay Zone) are currently supplied with water from the City of Grand Island.

8.1.3 Hazard Communication Institutional Control/Action

The Grand Island Independent newspaper will be notified when the annual monitoring report is issued at the conclusion of each annual sampling round. The U.S. Army will issue press releases to the Grand Island Independent newspaper regarding plume locations, concentrations, and associated drinking water hazards when the annual report is completed.

8.2 OU1 ON-POST GROUNDWATER EXPLOSIVES PLUME INSTITUTIONAL CONTROLS

The following sections state the on-post institutional controls and the annual 2021 review (including visual survey and NEDNR review) for each control. A summary of the 2021 institutional controls' effectiveness is included in **Table 8-1**.

8.2.1 Deed Restrictions Institutional Control/Action

When property in the vicinity of the plume is excessed, the deed restrictions include: 1) restrictive covenants prohibiting drinking water supply well drilling in the plume vicinity until groundwater is cleaned up to HALs; 2) restrictive covenants prohibiting the use of the property for residential purposes; and 3) right-of-entry to the property by USACE (and their contractors) to perform environmental restoration work. On May 18, 2021, a visual survey was completed at land parcels with existing explosives plumes by accessing properties during the field event and making visual confirmations. The survey verified that no water supply wells have been drilled in the plume vicinity. Additionally, the NEDNR website (NEDNR 2021) was consulted in September 2021 to verify that drinking water supply wells have not been drilled in the plume vicinity and that none of the excessed property is used for residential purposes. No property transfers occurred in 2021.

8.2.2 Hall County Zoning Plan Institutional Control/Action

The Hall County Reuse Plan will enforce excessed CHAAP land designation for agricultural, recreational, and industrial zoning. The Hall County Reuse Plan is still in place and the excessed CHAAP land is being used for agricultural, recreational, and industrial purposes.

8.2.3 Well Drilling Prohibition Institutional Control/Action

Water supply well drilling is prohibited by the U.S. Army within 2,500 feet of the plume area. During the May 18, 2021 visual survey and after reviewing the NEDNR website (NEDNR 2021) in September 2021, it was confirmed that water supply well drilling has not occurred in the plume area.

8.3 OU3 SHOP AREA INSTITUTIONAL CONTROLS

Institutional controls for OU3 were established in the ROD (USACE 1999, dated October 1999 and signed December 1999). The following section states the OU3 institutional controls and the annual 2021 review (including visual survey and NEDNR review) for the controls. A summary of the 2021 institutional controls' effectiveness is included in **Table 8-1**.

Deed Restrictions Institutional Control/Action

Deed restrictions have been placed on excessed property, which include prohibiting water supply well drilling and residential use of the property. During the May 18, 2021 visual survey and after reviewing the NEDNR website (NEDNR 2021) in September 2021, it was confirmed that no water supply wells have been installed and the property is not used for residential purposes.

8.4 INSTITUTIONAL CONTROLS REVIEW SUMMARY

The institutional controls established in the OU1 ROD Amendment (URSGWCFS 2001b) and the OU3 ROD (USACE 1999) for CHAAP are fully operative and effective. It can therefore be stated that the overall objective of the institutional controls, to help prevent exposure to contaminated groundwater at CHAAP, has been achieved through September 2021. The remaining months for 2021 will be included in the 2022 institutional controls review (anticipated September 2022).

TABLE 8-1
SUMMARY OF INSTITUTIONAL CONTROLS: 2021 REVIEW
2021 ANNUAL REPORT

Area	August 2001 Institutional Controls Summary	September 2021 Effectiveness Review
OU1 Off-Post Plume		
	City Ordinance that prohibits drinking water supply well drilling in Overlay Zone. Ordinance is enforced through plumbing permits.	No plumbing permits for private well hookups in the Overlay Zone were issued by the City of Grand Island.
	City of Grand Island will continue to provide water supply to all residences in plume area.	The City of Grand Island supplied water to all residences in the plume area.
	Communicate plume locations, concentrations, and drinking water hazards to the public through press releases in the Grand Island Independent newspaper.	U.S. Army submitted press releases regarding plume locations, concentrations, and drinking water hazards to the local newspaper.
OU1 On-Post Plume		
	U.S. Army placed land restrictions on excessed property that: - prohibit drinking water supply well drilling in plume vicinity - prohibit use of property for residential purposes	Excessed land has not been used for residential purposes. No drinking water supply wells have been drilled in the plume vicinity.
	Hall County Reuse Plan designates/zones all excessed CHAAP property as agricultural, recreational, and industrial use only.	Excessed CHAAP land is only used for agricultural, recreational, and industrial purposes.
	Water supply well drilling is prohibited in the plume area on U.S. Army property.	Water supply wells have not been drilled in the plume area on U.S. Army property.
OU3 On-Post Area		
	U.S. Army placed land restrictions on excessed property that: - prohibit drinking water supply well drilling in plume vicinity - prohibit use of property for residential purposes	Excessed land has not been used for residential purposes. No drinking water supply wells have been drilled in the plume vicinity.

9.1 2021 CONCLUSIONS

9.1.1 Groundwater Treatment Facility

On October 28, 2019, pumping at EW7 and operation of the GWTF was discontinued, mothballed, and is being maintained in a standby status during the OU1 Rebound Study. Routine O&M activities continue at on-post well houses EW1 through EW7 and the GWTF as described in **Section 2.2**.

9.1.2 OU1 and OU3 Annual Groundwater Long-Term Monitoring

9.1.2.1 OU1 On- and Off-Post

The May 2021 OU1 annual groundwater LTM results and quarterly OU1 Rebound Study/subsurface injection sampling results indicate small areas of RDX and/or TNT concentrations above the HALs remain at LL1, LL2, between EW6 and EW7 (near the former facility boundary), and the Decant Station. No RDX or TNT concentrations were detected above HALs at LL3, LL4, or LL5. At OU1 on-post wells, multiple locations with declines in RDX and TNT concentrations and the presence of breakdown products indicate that explosives degradation is occurring. On-post remedial actions (soil removal, groundwater extraction, and subsurface injections) account for much of the overall mass reduction in groundwater.

At a majority of the OU1 on-post wells, when compared to the annual 2020 and/or Q5 sampling events results, explosive concentrations have decreased (or remained nondetect) in May 2021; however, at six OU1 on-post wells concentrations increased to above RDX or TNT HALs since the previous event (compared to four OU1 on-post wells increasing to above HALs from June 2019 to June 2020 [Brice-AECOM 2021b]). Three of the newly identified wells with concentrations above HALs in May 2021 (G0111 and G0122 at LL2 and G0102 at the Decant Station) are likely due to the 2020 injection activities causing mobilization of dissolved explosives, as similarly identified following the 2019 and prior injection activities. The remaining three wells with rebounding explosives concentrations (G0093 and G0099 at LL1 and G0089 between EW6 and EW7) are likely a result of rising water levels (2018 to 2020) in areas of limited/older subsurface injection activities, which have caused dissolution and desorption of explosives trapped in the vadose zone during periods of lower water levels (2012 to 2017) (i.e., G0093 and G0099); or minor fluctuations with concentrations near the HALs at downgradient wells (i.e., G0089). Additionally, at well G0099, the recent large RDX concentration increase could also be likely due to the 2020 injection activities to the north, mobilizing dissolved explosives and pushing it to the south.

Concentrations of TNT and/or RDX were below the HALs at all off-post monitoring well locations in May 2021, which is consistent with all previous annual sampling events since 2014 and indicates that the OU1 off-post MNA remedy is functioning as intended. However, as verified from quarterly OU1 Rebound Study off-post direct push sampling, the TNT plume which extends slightly downgradient of the former facility boundary, has not migrated further downgradient (Brice-AECOM 2022).

Six rounds of the OU1 Rebound Study and the OU1 subsurface injection quarterly performance monitoring activities have been completed through May/June 2021 with 2 more rounds to be completed in 2021 and 2022. Future OU1 Rebound Study and subsurface performance monitoring will continue to be detailed in quarterly OU1 Rebound Study Letter Reports. To date, the OU1 Rebound Study and OU1 subsurface injection activities and performance monitoring activities are detailed in the Final OU1 Rebound Study Letter Report – Baseline Event (Brice-AECOM 2020a), Final OU1 Rebound Study Letter Report – Quarter 2 Event (Brice-AECOM 2020c), Final OU1 Rebound Study Letter Report – Quarter 3 Event (Brice-AECOM 2020d), Final OU1 Rebound Study Letter Report – Quarter 4 Event (Brice-AECOM 2021a), Final OU1 Rebound Study Letter Report – Quarter 5 Event (Brice-AECOM 2021c), and Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022).

9.1.2.2 OU3 Shop Area

At the OU3 Shop Area, only 1,1,2-TCA was detected at one well (SHGW03) with a concentration that exceeded the MCL. Concentrations for all other compounds were below MCLs, including at upgradient well SHGW02. During the June 2020 event, a 1,1,2-TCA concentration of 15 µg/L was also detected at SHGW03, which was also above the MCL, but decreased to 11 µg/L in May 2021. At SHGW02 the concentration of 1,1,2-TCA has remained below its MCL since 2010. This current 1,1,2-TCA concentration at SHGW03 is likely the result of increasing groundwater elevations causing dissolution and desorption of 1,1,2-TCA trapped in the vadose zone. Conditions conducive to biodegradation of 1,1,2-TCA continue to persist at the OU3 Shop Area.

9.1.2.3 Monitoring Program Optimizations

There are no suggested monitoring program optimizations for OU1/OU3.

9.1.3 Groundwater Modeling

Annual groundwater modeling for OU1 estimated that the mass of RDX+TNT in the OU1 RAO Load Line Treatment Areas decreased by 5.7-percent, and that the mass of RDX+TNT in the Between EW6 and EW7 Treatment Area decreased by 18-percent between 2020 and 2021. The changes in mass were calculated using computer-modeled mass estimates from the baseline (June 2020) and the 2021 groundwater sampling events (OU1 Rebound Study, OU1 subsurface injection performance monitoring, and OU1 annual LTM).

The decreases in mass in the Treatment Areas were likely due to the 2019 and 2020 subsurface injections completed at LL1, LL2, the Decant Station, and between EW6 and EW7. Although concentrations increased at select locations, a majority of wells in these areas either showed decreases in concentrations or remained nondetect. Completing future plume refinement sampling activities (i.e., 2020 subsurface injection performance monitoring [Q7 and Q8]) will likely further reduce the estimated site remediation timeframe; however, groundwater modeling estimates that the overall estimated mass remaining in the Treatment Areas is minimal.

The latest groundwater model, with the consideration of the subsurface injections and EW7 no longer pumping, predicts that on-site remediation will be complete within 13 years and that the on-post plume will not migrate further downgradient.

9.2 2022 RECOMMENDATIONS

Recommendations for CHAAP activities are based on data presented in this 2021 annual report. The recommended activities for 2022 (concurrent with OU1 Rebound Study activities) include: OU1/OU3 annual groundwater LTM activities, monitoring well abandonment, and reporting.

Details for the OU1 Rebound Study that began in October 2019 (i.e., GWTF shutdown O&M and OU1 Rebound Study sampling) are included in the Final OU1 Rebound Study Work Plan (Brice-AECOM 2019a) and details for the 2020 subsurface injections and associated performance monitoring are included in the Final 2019 Annual Report (Brice-AECOM 2020b). The most recent OU1 Rebound Study and subsurface injection planned activities are included in the Final OU1 Rebound Study Letter Report – Quarter 6 Event (Brice-AECOM 2022). The remaining OU1 Rebound Study and performance monitoring activities (i.e., Q7 and Q8) will be detailed in future OU1 Rebound Study Letter Reports and summarized in the 2022 Annual Report.

The following actions are recommended for 2022 at CHAAP:

9.2.1 Groundwater Treatment Facility

Concurrent with OU1 Rebound Study activities, the GWTF and extraction wells will remain in standby condition (pumping set to 0 gpm and minimal operations at GWTF). Routine O&M activities such as lawn mowing, snow removal, pest control, and site security will be continued.

9.2.2 OU1 Monitoring Well Abandonments

9.2.2.1 Proposed OU1 Monitoring Well Abandonments

Six off-post monitoring wells (NW050, NW051, NW052, NW080, NW081R, and NW082R) that are part of the quarterly OU1 Rebound Study sampling events and/or OU1 annual LTM event can no longer be accessed (since Q5-February/March 2021) due to the landowner not renewing the access lease and will be abandoned. These six wells have had concentrations below the explosives HALs since 2012 or longer. Additionally, one on-post monitoring well in LL2 (G0120) was damaged by farming activities, prior to May 2021. Due to damage identified at G0120, groundwater elevation measurements and/or samples are not able to be collected and therefore this well is also proposed for abandonment. Monitoring well G0120 was installed in 2014, has been below HALs since installation, and multiple wells surrounding G0120 are also sampled annually as part of the annual OU1 LTM event (and have also been below HALs since 2015 or longer).

The OU1 monitoring well abandonment activities are tentatively scheduled to be completed in the early spring (prior to planting season) or late fall (following harvest) 2022. The landowners will be contacted at least one week prior to the beginning of abandonment activities and advised of the 2022 field activity schedule. It is anticipated that monitoring well abandonment activities will take

approximately two to three days to complete. Proposed monitoring well abandonment screened intervals, well depths, and well locations are presented in **Table 9-1**. The proposed monitoring well abandonment locations are shown on **Figure 9-1**.

To continue to provide explosives results for quarterly OU1 Rebound Study events, direct push groundwater screen point sampling will be completed at one location adjacent to well cluster NW050 (one location with three vertical sample depths comparable to the existing monitoring wells). Recommendations for proposed off-post direct push groundwater sampling and details are included in the Final OU1 Rebound Study Letter Report – Quarter 4 Event [Brice-AECOM 2021a]).

9.2.3 OU1 and OU3 Annual Groundwater Long-Term Monitoring

9.2.3.1 OU1

Annual groundwater monitoring recommendations for OU1 are as follows:

- Continue annual site-wide groundwater level measurement event (OU1/OU3) from on- and off-post monitoring wells, piezometers, and extraction well observation wells (**Table 9-2**).
- Continue annual monitoring of explosives concentrations and trends in 12 OU1 off-post monitoring wells, 59 OU1 on-post monitoring wells, and 16 on-post piezometers to determine current conditions of off- and on-post explosives concentrations (**Table 9-3**). OU1 off-post monitoring wells, on-post monitoring wells, and piezometers proposed for annual sampling in 2022 are shown on **Figure 9-1**.
- Continue annual monitoring of water quality/MNA parameter trends in off-post and on-post wells to evaluate the effectiveness of the OU1 off-post MNA remedy and on-post subsurface injection treatment areas, respectively.

9.2.3.2 OU3

Annual groundwater monitoring recommendations for OU3 are as follows:

- Continue annual monitoring of VOC concentrations and trends at six OU3 Shop Area wells (**Table 9-3**). OU3 Shop Area monitoring wells proposed for sampling in 2022 are shown on **Figure 9-2**.
- Continue annual monitoring of VOCs and MNA parameters, including analysis for methane, ethane, and ethene to evaluate the effectiveness of the OU3 MNA remedy
- Continue annual monitoring of TPH-DRO at one OU3 Shop Area well

9.2.3.3 Proposed OU1 and OU3 Groundwater Monitoring Schedule

The annual OU1/OU3 groundwater monitoring is scheduled to begin in May/June 2022. Private-property owners will be contacted at least one week prior to the beginning of the OU1/OU3 groundwater monitoring activities and advised of the 2022 field activity schedule. It is anticipated

that annual OU1/OU3 groundwater monitoring activities will take approximately three to four weeks to complete.

9.2.4 Reporting

The following will be documented in the 2022 Annual Report:

- Summary of 2022 field activities associated with OU1/OU3
- Summary of current GWTF O&M activities and shutdown status
- Presentation of the nature and extent of OU1/OU3 contamination
- Evaluation the off-post OU1/OU3 MNA remedies
- Evaluation of OU1 statistical trends
- Recalibration of the groundwater flow and contaminant fate and transport model based on field measured groundwater elevations and explosives analytical results
- Adjustment of RDX and TNT half-life input values and constant concentrations within the LL1 and LL2 source areas based on the 2022 OU1 groundwater analytical data
- Discussion of the recalibrated groundwater flow and contaminant fate and transport model with respect to plume migration
- Completion of an institutional controls review
- Assessment of the need to restart of EW7 operations, if necessary
- Evaluation and optimization of OU1/OU3 sampling programs and schedule
- Evaluation and recommendations for future activities (RAO operations, subsurface injections, monitoring program, well installations and abandonments, etc.)

TABLE 9-1
2022 PROPOSED MONITORING WELL ABANDONMENT LOCATIONS, OU1
2021 ANNUAL REPORT

Monitoring Well Location ID	Property Ownership	Cluster or Single Well Location	Casing Diameter	Approximate Screened Interval (feet bgs)	Approximate Well Depth (feet btoc)	Coordinates[1]	
						Northing	Easting
Off-Post Monitoring Well Abandonment Locations							
NW050	Little B's / Baxter	Cluster	4"	10-20	20.14	406567.11	2072396.24
NW051		Cluster	4"	30-35	34.56	406542.92	2072401.28
NW052		Cluster	4"	55-60	60.86	406561.29	2072410.16
NW080	Little B's / Baxter	Cluster	4"	8-18	21.45	406616.48	2075116.44
NW081R		Cluster	4"	35-45	47.73	406617.07	2075148.66
NW082R		Cluster	4"	46-56	59.47	406617.82	2075190.08
On-Post Monitoring Well Abandonment Locations							
G0120	USACE	Single	2"	20-30	32.31	402480.52	2059971.451

Notes:

[1]Horizontal coordinates are in Nebraska State Plane, North American Datum of 1983.

bgs = below ground surface

btoc = below top of casing

ID = identification

USACE = United States Corp of Engineers

TABLE 9-2
2022 PROPOSED WATER LEVEL MEASUREMENT LOCATIONS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location	Top of Casing Elevation[1] (feet amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (feet bgs)	Well Depth (ft btoc)
OU1 Off-Post Monitoring Wells				
CA210	1888.15	1886.65	5-15	16.80
CA211	1888.22	1886.44	30-40	42.83
CA212	1888.17	1886.09	54-64	67.00
CA213	1888.07	1886.14	77-87	89.80
NW020	1898.51	1895.78	15-25	27.92
NW021	1898.76	1895.90	37-42	45.75
NW022	1898.68	1896.00	59-64	66.60
NW060	1889.18	1889.50	10-20	20.05
NW061	1888.80	1889.50	40-45	45.38
NW062	1888.97	1889.50	58-63	63.54
NW070	1884.77	1885.00	10-20	20.63
NW071	1884.59	1885.00	55-60	60.19
OU1 On-Post Monitoring Wells				
G0017	1910.60	1907.90	16-31	33.93
G0022	1899.16	1896.40	18-33	34.98
G0023	1901.71	1899.00	19-34	35.85
G0024	1896.00	1893.10	16-31	33.28
G0044	1918.95	1916.15	11-26	28.26
G0045	1910.10	1908.30	45-55	58.56
G0048	1900.80	1899.00	6-16	17.92
G0049	1901.28	1899.30	46-56	58.31
G0066R	1909.49	1907.50	20-30	32.60
G0067	1901.47	1899.60	5-20	22.52
G0070	1901.31	1898.80	75-80	82.65
G0075	1901.22	1899.20	25-35	37.71
G0076	1901.02	1898.90	54-64	65.20
G0077	1896.38	1893.90	25-35	37.70
G0078	1896.34	1894.10	50-60	62.80
G0079	1901.42	1899.00	8-18	19.62
G0080	1899.38	1896.80	25-35	37.70
G0081	1901.60	1899.10	28-38	41.30
G0082	1901.17	1898.70	28-38	41.01

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from TOC.

amsl = above mean sea level
bgs = below ground surface
btoc= below top of casing
EW = extraction well
ft = feet
ID = identification number
NA = not available
OU = Operable Unit
PZ = piezometer

TABLE 9-2
2022 PROPOSED WATER LEVEL MEASUREMENT LOCATIONS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location	Top of Casing Elevation[1] (feet amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (feet bgs)	Well Depth (ft btoc)
G0083	1897.86	1895.40	21-31	33.48
G0084	1906.97	1904.60	20-30	32.91
G0085	1905.79	1903.50	20-30	32.98
G0086	1897.25	1895.80	28-38	40.30
G0087	1898.00	1895.70	25-35	37.56
G0088	1898.44	1896.00	25-35	37.40
G0089	1899.75	1897.30	25-35	37.96
G0090	1899.90	1897.30	25-35	37.88
G0091	1896.88	1894.80	20-30	31.85
G0092	1897.02	1894.70	40-50	52.78
G0093	1899.47	1897.14	20-30	32.10
G0094	1903.72	1901.47	15-25	27.50
G0095	1910.24	1908.60	15-25	27.09
G0096	1905.94	1903.30	15-25	27.93
G0097	1903.62	1901.10	15-25	27.83
G0098	1903.23	1900.60	15-25	27.85
G0099	1903.36	1900.70	15-25	27.40
G0100	1910.46	1907.80	15-25	27.85
G0101	1910.64	1907.90	15-25	27.90
G0102	1912.20	1908.91	15-25	28.19
G0103	1912.31	1908.92	14-24	28.22
G0104	1911.55	1908.74	15-25	28.04
G0105	1911.41	1908.28	15-25	28.18
G0106	1912.15	1909.29	15-25	28.02
G0107	1911.38	1908.36	15-25	28.26
G0108	1902.84	1900.20	15-25	27.62
G0109	1901.24	1898.90	15-25	27.65
G0110	1901.91	1899.00	15-25	28.28
G0111	1911.94	1909.60	15-25	27.54
G0112	1901.06	1898.02	15-25	27.94
G0113	1903.06	1900.11	15-25	28.01
G0114	1901.92	1899.19	15-25	27.02
G0115	1908.41	1906.57	20-30	32.25
G0116	1904.19	1901.86	20-30	33.20

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from TOC.

amsl = above mean sea level
bgs = below ground surface
btoc= below top of casing
EW = extraction well
ft = feet
ID = identification number
NA = not available
OU = Operable Unit
PZ = piezometer

TABLE 9-2
2022 PROPOSED WATER LEVEL MEASUREMENT LOCATIONS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location	Top of Casing Elevation[1] (feet amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (feet bgs)	Well Depth (ft btoc)
G0117	1905.50	1902.73	20-30	32.05
G0118	1901.28	1898.66	15-25	27.62
G0119	1909.16	1906.29	20-30	32.45
G0121	1909.10	1905.95	20-30	32.35
G0122	1909.68	1906.57	20-30	32.85
G0123	1908.65	1905.78	20-30	32.00
OU1 On-Post Piezometers				
PZ001	1918.60	1915.80	10-30	32.85
PZ004	1916.69	1913.79	10-30	32.92
PZ005	1916.09	1913.59	10-30	33.30
PZ007	1909.49	1907.50	10-30	32.82
PZ009	1907.02	1904.90	10-30	32.90
PZ010	1907.31	1905.30	10-30	32.85
PZ011	1906.56	1904.90	10-30	32.90
PZ012	1906.92	1904.70	10-30	32.85
PZ013	1905.29	1902.30	10-30	32.89
PZ014	1905.21	1903.10	10-30	32.85
PZ015	1901.71	1899.60	10-30	32.84
PZ016	1901.62	1899.40	10-30	32.80
PZ017R	1895.17	1892.90	10-30	32.42
PZ018	1896.88	1894.70	10-30	31.90
PZ019	1901.30	1898.90	10-30	32.23
PZ020	1899.25	1897.00	10-30	32.33
OU1 Observation Wells (EW4, EW5, EW6, EW7)				
EW4-OW4A	1909.85	1907.35	31-51	52.95
EW4-OW4B	1910.11	1907.61	31-51	53.10
EW4-OW4C	1909.91	1907.41	31-51	53.25
EW5-OW5A	1907.88	1905.38	29-59	60.80
EW5-OW5B	1908.38	1905.88	29-59	61.00
EW5-OW5C	1908.11	1905.61	29-59	60.94
EW6-OW6A	1902.68	1900.18	29-54	55.99
EW6-OW6B	1902.70	1900.20	29-54	56.55
EW6-OW6C	1902.96	1900.46	29-54	56.75

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from TOC.

amsl = above mean sea level
bgs = below ground surface
btoc= below top of casing
EW = extraction well
ft = feet
ID = identification number
NA = not available
OU = Operable Unit
PZ = piezometer

TABLE 9-2
2022 PROPOSED WATER LEVEL MEASUREMENT LOCATIONS OU1/OU3
2021 ANNUAL REPORT

Groundwater Measurement Location	Top of Casing Elevation[1] (feet amsl)	Ground Elevation[1,2] (ft amsl)	Approximate Screened Interval (feet bgs)	Well Depth (ft btoc)
EW7-OW7A	1896.19	1894.10	25-50	52.84
EW7-OW7B	1896.53	1894.03	25-50	52.25
EW7-OW7C	1894.48	1893.82	29-54	55.85
OU3 Shop Area On-Post Monitoring Wells				
G0050	1902.29	1900.60	NA	25.25
G0051	1902.22	1900.40	NA	18.45
G0053	1902.88	1901.10	NA	25.13
G0069	1900.02	1898.10	NA	25.24
SAMW1	1899.91	1899.91	NA	22.18
SHGW02	1902.50	1902.50	6-21	24.11
SHGW03	1901.33	1901.33	6-21	23.70
SHGW04	1899.82	1899.82	16-21	23.09

Notes:

[1]Elevation datum based on National Geodetic Vertical Datum of 1929.

[2]Ground elevations are provided from field surveying or estimated measurments from TOC.

amsl = above mean sea level
bgs = below ground surface
btoc= below top of casing
EW = extraction well
ft = feet
ID = identification number
NA = not available
OU = Operable Unit
PZ = piezometer

TABLE 9-3
2022 PROPOSED GROUNDWATER SAMPLING LOCATIONS, OU1/OU3 MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Sample Location ID	Frequency[1]	Screened Interval	Top of Casing Elevation (feet amsl)[2]	Approximate Sample Depth (feet btoc)	Approximate Sample Elevation (feet amsl)[2]	Analytical Parameters						
						Explosives[3]	VOCs[3]	TPH-DRO[3]	Laboratory MNA Parameters[3,4]	Field Water Quality Parameters[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]
OU1 Off-Post Monitoring Wells												
CA210	Quarterly	Top GI Fm.	1888.15	13	1875.2	X			X	X		
CA211	Quarterly	Mid GI Fm.	1888.22	38	1850.2	X			X	X		
CA212	Quarterly	Base GI Fm.	1888.17	62	1826.2	X			X	X		
CA213	Quarterly	Top Holdrege Fm.	1888.07	85	1803.1	X			X	X		
NW020	Quarterly	Top GI Fm.	1898.51	23	1875.5	X			X	X	X	
NW021	Quarterly	Mid GI Fm.	1898.76	43	1855.8	X			X	X		
NW022	Quarterly	Base GI Fm.	1898.68	63	1835.7	X			X	X		
NW060	Quarterly	Top GI Fm.	1889.18	15	1874.2	X			X	X		
NW061	Quarterly	Mid GI Fm.	1888.80	43	1845.8	X			X	X		
NW062	Quarterly	Base GI Fm.	1888.97	60	1829.0	X			X	X		X
NW070	Quarterly	Top GI Fm.	1884.77	15	1869.8	X			X	X		
NW071	Quarterly	Base GI Fm.	1884.59	57	1827.6	X			X	X		
				OU1 Off-Post Totals		**12**	**0**	**0**	**12**	**12**	**1**	**1**
OU1 On-Post Monitoring Wells												
G0017	Annual	Top GI Fm.	1910.60	27	1883.6	X			X	X		

Notes:

[1]Sampling frequency is based on annual sampling event (once-annually or every three years) or quarterly OU1 Rebound Study/OU1 subsurface injection performance monitoring sampling events (quarterly).

[2]Elevation datum based on National Geodetic Vertical Datum of 1929.

[3]Explosives (+ MNX) analysis (SW846 Method 8330A), VOCs analysis (SW846 Method 8260B), TPH-DRO analysis (SW846 Method 8015), and laboratory MNA parameter analysis will be completed on normal turnaround basis (21 day).

[4]Laboratory MNA parameters for OU1 include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B). For OU3: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 300.1), and alkalinity (Method 2320B) only.

[5]Field water quality parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, turbidity, specific conductance, pH, and temperature.

[6]Field duplicate samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

[7]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.
Laboratory analysis will be completed by Eurofins-TestAmerica, Inc., Denver, Colorado.

% = percent
amsl = above mean sea level
btoc = below top of casing
ID = identification number
MNX = mono-nitroso-RDX
MS/MSD = matrix spike/matrix spike duplicate
OU = Operable Unit
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TABLE 9-3
2022 PROPOSED GROUNDWATER SAMPLING LOCATIONS, OU1/OU3 MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Sample Location ID	Frequency[1]	Screened Interval	Top of Casing Elevation (feet amsl)[2]	Approximate Sample Depth (feet btoc)	Approximate Sample Elevation (feet amsl)[2]	Analytical Parameters						
						Explosives[3]	VOCs[3]	TPH-DRO[3]	Laboratory MNA Parameters[3,4]	Field Water Quality Parameters[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]
G0022	Quarterly	Top GI Fm.	1899.16	29	1870.2	X			X	X		
G0023	Annual	Top GI Fm.	1901.71	30	1871.7	X			X	X		
G0024	Quarterly	Top GI Fm.	1896.00	27	1869.0	X			X	X		
G0044	Annual	Top GI Fm.	1918.95	22	1897.0	X			X	X		
G0045	Annual	Base GI Fm.	1910.10	53	1857.1	X			X	X		
G0048	Annual	Top GI Fm.	1900.80	14	1886.8	X			X	X		
G0049	Annual	Base GI Fm.	1901.28	54	1847.3	X			X	X		
G0066R	Annual	Top GI Fm.	1909.49	28	1881.5	X			X	X		
G0067	Annual	Top GI Fm.	1901.47	16	1885.5	X			X	X		
G0070	Quarterly	Top Holdrege Fm.	1901.31	82	1819.3	X			X	X		X
G0075	Quarterly	Mid GI Fm.	1901.22	33	1868.2	X			X	X		
G0076	Quarterly	Base GI Fm.	1901.02	62	1839.0	X			X	X		
G0077	Quarterly	Mid GI Fm.	1896.38	33	1863.4	X			X	X		
G0078	Quarterly	Base GI Fm.	1896.34	58	1838.3	X			X	X		
G0079	Quarterly	Top GI Fm.	1901.42	16	1885.4	X			X	X		
G0080	Quarterly	Mid GI Fm.	1899.38	33	1866.4	X			X	X		
G0081	Quarterly	Mid GI Fm.	1901.60	36	1865.6	X			X	X		

Notes:

[1]Sampling frequency is based on annual sampling event (once-annually or every three years) or quarterly OU1 Rebound Study/OU1 subsurface injection performance monitoring sampling events (quarterly).

[2]Elevation datum based on National Geodetic Vertical Datum of 1929.

[3]Explosives (+ MNX) analysis (SW846 Method 8330A), VOCs analysis (SW846 Method 8260B), TPH-DRO analysis (SW846 Method 8015), and laboratory MNA parameter analysis will be completed on normal turnaround basis (21 day).

[4]Laboratory MNA parameters for OU1 include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B). For OU3: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 300.1), and alkalinity (Method 2320B) only.

[5]Field water quality parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, turbidity, specific conductance, pH, and temperature.

[6]Field duplicate samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

[7]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

Laboratory analysis will be completed by Eurofins-TestAmerica, Inc., Denver, Colorado.

% = percent
amsl = above mean sea level
btoc = below top of casing
ID = identification number
MNX = mono-nitroso-RDX
MS/MSD = matrix spike/matrix spike duplicate
OU = Operable Unit
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TABLE 9-3
2022 PROPOSED GROUNDWATER SAMPLING LOCATIONS, OU1/OU3 MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Sample Location ID	Frequency[1]	Screened Interval	Top of Casing Elevation (feet amsl)[2]	Approximate Sample Depth (feet btoc)	Approximate Sample Elevation (feet amsl)[2]	Analytical Parameters						
						Explosives[3]	VOCs[3]	TPH-DRO[3]	Laboratory MNA Parameters[3,4]	Field Water Quality Parameters[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]
G0082	Quarterly	Mid GI Fm.	1901.17	36	1865.2	X			X	X		
G0083	Annual	Top GI Fm.	1897.86	29	1868.9	X			X	X		
G0084	Annual	Top GI Fm.	1906.97	28	1879.0	X			X	X		
G0085	Annual	Top GI Fm.	1905.79	28	1877.8	X			X	X		
G0086	Quarterly	Mid GI Fm.	1897.25	36	1861.3	X			X	X		
G0087	Quarterly	Mid GI Fm.	1898.00	33	1865.0	X			X	X		
G0088	Annual	Mid GI Fm.	1898.44	33	1865.4	X			X	X		
G0089	Annual	Mid GI Fm.	1899.75	33	1866.8	X			X	X		
G0090	Annual	Mid GI Fm.	1899.90	33	1866.9	X			X	X		
G0091	Quarterly	Top GI Fm.	1896.88	28	1868.9	X			X	X		
G0092	Quarterly	Mid GI Fm.	1897.02	48	1849.0	X			X	X		
G0093	Annual	Top GI Fm.	1899.47	28	1871.5	X			X	X		
G0094	Quarterly	Top GI Fm.	1903.72	23	1880.7	X			X	X		
G0095	Annual	Top GI Fm.	1910.24	23	1887.2	X			X	X		
G0096	Quarterly	Top GI Fm.	1905.94	23	1882.9	X			X	X	X	
G0097	Annual	Top GI Fm.	1903.62	23	1880.6	X			X	X		
G0098	Annual	Top GI Fm.	1903.23	23	1880.2	X			X	X		

Notes:

[1]Sampling frequency is based on annual sampling event (once-annually or every three years) or quarterly OU1 Rebound Study/OU1 subsurface injection performance monitoring sampling events (quarterly).

[2]Elevation datum based on National Geodetic Vertical Datum of 1929.

[3]Explosives (+ MNX) analysis (SW846 Method 8330A), VOCs analysis (SW846 Method 8260B), TPH-DRO analysis (SW846 Method 8015), and laboratory MNA parameter analysis will be completed on normal turnaround basis (21 day).

[4]Laboratory MNA parameters for OU1 include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B). For OU3: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 300.1), and alkalinity (Method 2320B) only.

[5]Field water quality parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, turbidity, specific conductance, pH, and temperature.

[6]Field duplicate samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

[7]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

Laboratory analysis will be completed by Eurofins-TestAmerica, Inc., Denver, Colorado.

% = percent
amsl = above mean sea level
btoc = below top of casing
ID = identification number
MNX = mono-nitroso-RDX
MS/MSD = matrix spike/matrix spike duplicate
OU = Operable Unit
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TABLE 9-3
2022 PROPOSED GROUNDWATER SAMPLING LOCATIONS, OU1/OU3 MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Sample Location ID	Frequency[1]	Screened Interval	Top of Casing Elevation (feet amsl)[2]	Approximate Sample Depth (feet btoc)	Approximate Sample Elevation (feet amsl)[2]	Analytical Parameters						
						Explosives[3]	VOCs[3]	TPH-DRO[3]	Laboratory MNA Parameters[3,4]	Field Water Quality Parameters[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]
G0099	Annual	Top GI Fm.	1903.36	23	1880.4	X			X	X		
G0100	Annual	Top GI Fm.	1910.46	23	1887.5	X			X	X		
G0101	Annual	Top GI Fm.	1910.64	23	1887.6	X			X	X		
G0102	Quarterly	Top GI Fm.	1912.20	23	1889.2	X			X	X		
G0103	Annual	Top GI Fm.	1912.31	22	1890.3	X			X	X		
G0104	Annual	Top GI Fm.	1911.55	22	1889.6	X			X	X		
G0105	Annual	Top GI Fm.	1911.41	23	1888.4	X			X	X		
G0106	Annual	Top GI Fm.	1912.15	23	1889.2	X			X	X		
G0107	Annual	Top GI Fm.	1911.38	23	1888.4	X			X	X		
G0108	Annual	Top GI Fm.	1902.84	23	1879.8	X			X	X		
G0109	Annual	Top GI Fm.	1901.24	23	1878.2	X			X	X		
G0110	Annual	Top GI Fm.	1901.91	23	1878.9	X			X	X		
G0111	Quarterly	Top GI Fm.	1911.94	23	1888.9	X			X	X	X	
G0112	Annual	Top GI Fm.	1901.60	23	1878.6	X			X	X		
G0113	Annual	Top GI Fm.	1903.06	23	1880.1	X			X	X		
G0114	Annual	Top GI Fm.	1901.92	23	1878.9	X			X	X		
G0115	Annual	Top GI Fm.	1908.41	28	1880.4	X			X	X		

Notes:

[1]Sampling frequency is based on annual sampling event (once-annually or every three years) or quarterly OU1 Rebound Study/OU1 subsurface injection performance monitoring sampling events (quarterly).

[2]Elevation datum based on National Geodetic Vertical Datum of 1929.

[3]Explosives (+ MNX) analysis (SW846 Method 8330A), VOCs analysis (SW846 Method 8260B), TPH-DRO analysis (SW846 Method 8015), and laboratory MNA parameter analysis will be completed on normal turnaround basis (21 day).

[4]Laboratory MNA parameters for OU1 include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B). For OU3: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 300.1), and alkalinity (Method 2320B) only.

[5]Field water quality parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, turbidity, specific conductance, pH, and temperature.

[6]Field duplicate samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

[7]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.
Laboratory analysis will be completed by Eurofins-TestAmerica, Inc., Denver, Colorado.

% = percent
amsl = above mean sea level
btoc = below top of casing
ID = identification number
MNX = mono-nitroso-RDX
MS/MSD = matrix spike/matrix spike duplicate
OU = Operable Unit
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TABLE 9-3
2022 PROPOSED GROUNDWATER SAMPLING LOCATIONS, OU1/OU3 MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Sample Location ID	Frequency[1]	Screened Interval	Top of Casing Elevation (feet amsl)[2]	Approximate Sample Depth (feet btoc)	Approximate Sample Elevation (feet amsl)[2]	Analytical Parameters						
						Explosives[3]	VOCs[3]	TPH-DRO[3]	Laboratory MNA Parameters[3,4]	Field Water Quality Parameters[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]
G0116	Annual	Top GI Fm.	1904.19	28	1876.2	X			X	X		
G0117	Annual	Top GI Fm.	1905.50	28	1877.5	X			X	X		
G0118	Annual	Top GI Fm.	1901.28	22	1879.3	X			X	X		
G0119	Annual	Top GI Fm.	1909.16	27	1882.2	X			X	X		
G0121	Quarterly	Top GI Fm.	1909.10	27	1882.1	X			X	X		
G0122	Quarterly	Top GI Fm.	1909.68	27	1882.7	X			X	X		
G0123	Quarterly	Top GI Fm.	1908.65	27	1881.7	X			X	X		
PZ001	Annual	Top GI Fm.	1918.60	23	1895.6	X			X	X		X
PZ004	Annual	Top GI Fm.	1916.69	23	1893.7	X			X	X		
PZ005	Annual	Top GI Fm.	1916.09	23	1893.1	X			X	X		
PZ007	Annual	Top GI Fm.	1909.49	23	1886.5	X			X	X		X
PZ009	Annual	Top GI Fm.	1907.02	23	1884.0	X			X	X		
PZ010	Annual	Top GI Fm.	1907.31	23	1884.3	X			X	X		
PZ011	Annual	Top GI Fm.	1906.56	23	1883.6	X			X	X		
PZ012	Annual	Top GI Fm.	1906.92	23	1883.9	X			X	X		
PZ013	Annual	Top GI Fm.	1905.29	23	1882.3	X			X	X		
PZ014	Annual	Top GI Fm.	1905.21	23	1882.2	X			X	X		

Notes:

[1]Sampling frequency is based on annual sampling event (once-annually or every three years) or quarterly OU1 Rebound Study/OU1 subsurface injection performance monitoring sampling events (quarterly).

[2]Elevation datum based on National Geodetic Vertical Datum of 1929.

[3]Explosives (+ MNX) analysis (SW846 Method 8330A), VOCs analysis (SW846 Method 8260B), TPH-DRO analysis (SW846 Method 8015), and laboratory MNA parameter analysis will be completed on normal turnaround basis (21 day).

[4]Laboratory MNA parameters for OU1 include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B). For OU3: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 300.1), and alkalinity (Method 2320B) only.

[5]Field water quality parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, turbidity, specific conductance, pH, and temperature.

[6]Field duplicate samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

[7]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

Laboratory analysis will be completed by Eurofins-TestAmerica, Inc., Denver, Colorado.

% = percent
amsl = above mean sea level
btoc = below top of casing
ID = identification number
MNX = mono-nitroso-RDX
MS/MSD = matrix spike/matrix spike duplicate
OU = Operable Unit
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TABLE 9-3
2022 PROPOSED GROUNDWATER SAMPLING LOCATIONS, OU1/OU3 MONITORING WELLS AND PIEZOMETERS
2021 ANNUAL REPORT

Sample Location ID	Frequency[1]	Screened Interval	Top of Casing Elevation (feet amsl)[2]	Approximate Sample Depth (feet btoc)	Approximate Sample Elevation (feet amsl)[2]	Analytical Parameters						
						Explosives[3]	VOCs[3]	TPH-DRO[3]	Laboratory MNA Parameters[3,4]	Field Water Quality Parameters[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]
PZ015	Annual	Top GI Fm.	1901.71	23	1878.7	X			X	X		
PZ016	Annual	Top GI Fm.	1901.62	23	1878.6	X			X	X		
PZ017R	Quarterly	Top GI Fm.	1895.17	23	1872.2	X			X	X	X	
PZ018	Quarterly	Top GI Fm.	1896.88	23	1873.9	X			X	X		
PZ019	Quarterly	Top GI Fm.	1901.30	23	1878.3	X			X	X		X
PZ020	Quarterly	Top GI Fm.	1899.25	23	1876.3	X			X	X		
					OU1 On-Post Totals	**75**	**0**	**0**	**75**	**75**	**3**	**4**
OU3 Shop Area On-Post Monitoring Wells												
G0053	Annual	Top GI Fm.	1902.88	17	1885.9		X		X	X		
G0069	Annual	Top GI Fm.	1900.02	17	1883.0		X	X	X	X		
SAMW1	Annual	Top GI Fm.	1899.91	17	1882.9		X		X	X		
SHGW02	Annual	Top GI Fm.	1902.50	17	1885.5		X		X	X		
SHGW03	Annual	Top GI Fm.	1901.33	17	1884.3		X	X	X	X	X	
SHGW04	Annual	Top GI Fm.	1899.82	17	1882.8		X	X	X	X		
					OU3 On-Post Totals	**0**	**6**	**3**	**6**	**6**	**1**	**0**
					Overall Totals	**87**	**6**	**3**	**93**	**93**	**5**	**5**

Notes:

[1]Sampling frequency is based on annual sampling event (once-annually or every three years) or quarterly OU1 Rebound Study/OU1 subsurface injection performance monitoring sampling events (quarterly).

[2]Elevation datum based on National Geodetic Vertical Datum of 1929.

[3]Explosives (+ MNX) analysis (SW846 Method 8330A), VOCs analysis (SW846 Method 8260B), TPH-DRO analysis (SW846 Method 8015), and laboratory MNA parameter analysis will be completed on normal turnaround basis (21 day).

[4]Laboratory MNA parameters for OU1 include: methane (Method RSK 175), total Kjeldahl nitrogen (Method 351.2), nitrate/nitrite (Method 353.2), sulfate (Method 9056A), sulfide (Method 9034), ammonia (Method 350.1), dissolved organic carbon (Method 9060A), alkalinity (Method 2320B), and carbon dioxide (back calculated Method 2320B). For OU3: methane, ethane, ethene (Method RSK 175), nitrate/nitrite (Method 353.2), sulfate (Method 300.1), and alkalinity (Method 2320B) only.

[5]Field water quality parameters include: dissolved oxygen, oxidation/reduction potential, ferrous iron, turbidity, specific conductance, pH, and temperature.

[6]Field duplicate samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.

[7]MS/MSD samples will be collected at a rate of 5% (1 per 20 samples collected) for the full suite of laboratory parameters.
Laboratory analysis will be completed by Eurofins-TestAmerica, Inc., Denver, Colorado.

% = percent
amsl = above mean sea level
btoc = below top of casing
ID = identification number
MNX = mono-nitroso-RDX
MS/MSD = matrix spike/matrix spike duplicate
OU = Operable Unit
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RSK = Robert S. Kerr
TPH-DRO = total petroleum hydrocarbons-diesel range organics
VOC = volatile organic compound

TOWNSHIP 11 N RANGE 11 W

CAAP–5 OB/OD

NORTH MAGAZINES

SANITARY LANDFILL

LOADLINE 4

LOADLINE 5

SOUTH MAGAZINES

NITRATE AREA

ADMIN AREA

Silver Creek

N. 60th ROAD

MONITOR ROAD

ENGLEMAN ROAD

CAPITIAL AVENUE

13th STREET

OLD POTASH HIGHWAY

STOLLEY PARK ROAD

G0063 G0105 G0107 G0106 G0104 G0102 G0103

EW2 PZ005

PZ007 EW3 G0122 G0066R G0100 G0017 G0045 G0111 G0119 G0095 G0121 G0123 G0101 G0115

EW4 PZ011 EW5 G0097 PZ012 G0094 G0093 G0098 G0099 G0114 G0109 G0110 G0067

PZ014 G0120 G0117 G0085 G0084 PZ013 G0116 PZ010 PZ009 G0112 G0113 G0108 G0096

G0079 G0075 G0076 G0070 G0088 G0083 G0022 G0023

G0091 G0092 G0080 G0086 G0087 G0081 G0082 G0090 G0089 G0048 G0049 PZ015 EW6 PZ016 G0118

NW020 NW021 NW022 PZ020 G0024 G0077 G0078 EW7 PZ017R PZ018 PZ019

NW060 NW061 NW062 NW050 NW051 NW052 NW080 NW081R NW082R CA210 CA211 CA212 CA213 NW070 NW071

PZ001 PZ004 G0044 EW1

G0051 SAMW1 G0069 G0050 SHGW02 SHGW03 SHGW04 G0053

LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- INACTIVE GROUNDWATER EXTRACTION WELL
- G0121 — OU1 GROUNDWATER SAMPLING LOCATIONS – ANNUAL (MAY/JUNE 2022)
- G0086 — OU1 GROUNDWATER SAMPLING LOCATIONS – OU1 REBOUND STUDY (QUARTERLY)
- NW050 — OU1 MONITORING WELL ABANDONMENT LOCATIONS (2022)
- GENERAL GROUNDWATER FLOW DIRECTION
- ROADS
- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- SURFACE DRAINAGE
- 281 — STATE ROUTE
- 30 — U.S. ROUTE
- 2 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (TNT CONCENTRATIONS >2µg/L) MAY/JUNE 2021
- 20 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (TNT CONCENTRATIONS >20µg/L) MAY/JUNE 2021
- 2 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >2µg/L) MAY/JUNE 2021
- 20 — INTERPRETED HORIZONTAL EXTENT OF EXPLOSIVES (RDX CONCENTRATIONS >20µg/L) MAY/JUNE 2021

NOTE: EXPLOSIVES PLUME BASED ON 2021 SAMPLE RESULTS (ANNUAL AND QUARTERLY OU1 REBOUND STUDY/PERFORMANCE MONITORING)

N

0 3000 6000

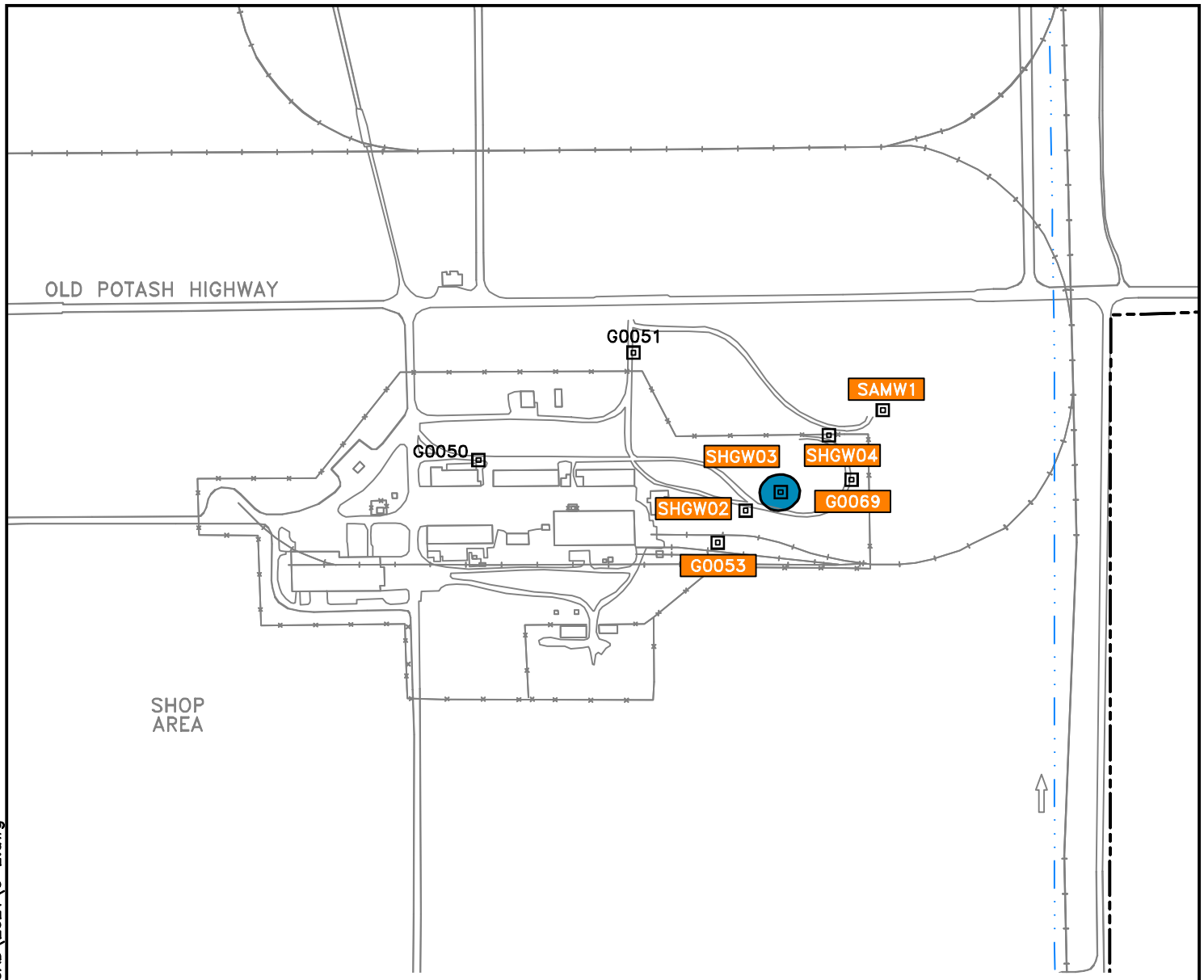
SCALE FEET

Bruce ENGINEERING AECOM

PROPOSED 2022 WELL SAMPLING AND ABANDONMENT LOCATIONS MAP
OFF–POST/ON–POST (OU1)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 9–1
CHK'D. BY: DC	DATE: 08/30/21		

August 30, 2021 11:09:25 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\9-1.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCLs (1,1,2-TCA MCL IS 5 µg/L)
- SHGW03 — OU3 GROUNDWATER SAMPLING LOCATIONS – ANNUAL (MAY/JUNE 2022)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2-TCA = 1,1,2-TRICHLORETHANE
MCL = MAXIMUM CONTAMINANT LEVEL
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND

N

0 500 1000

SCALE FEET

Brice ENGINEERING AECOM

PROPOSED 2022 WELL SAMPLING LOCATIONS MAP
SHOP AREA (OU3)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 08/30/21	PROJECT NO. 60565355	FIG. NO. 9-2
CHK'D. BY: DC	DATE: 08/30/21		

September 29, 2021 2:10:44 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\9-2.dwg

Air Force Civil Engineer Center (AFCEC) 2012. Monitoring and Remediation Optimization System (MAROS) Software Version 3.0 User's Guide. Technology Transfer Division, Air Force Center for Environmental Excellence. Brooks AFB, San Antonio, TX. September.

Bay West LLC and URS Group Inc. (BW-URS). 2008. 2007 Subsurface Injection Annual Report. OU1 Remedial Action Operation, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. June.

BW-URS. 2010. 2009 Subsurface Injection Annual Report. OU1 Remedial Action Operation, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. September.

BW-URS. 2013. 2012 Decant Station Groundwater Investigation and Additional Subsurface Injection Final Letter Report. Cornhusker Army Ammunition Plant, Grand Island, Nebraska. October.

BW-URS. 2014a. March 2013 Annual Sampling Event for the Long-Term Monitoring Program. Final Report. Cornhusker Army Ammunition Plant. Prepared for USACE. August.

BW-URS. 2014b. Uniform Federal Policy – Quality Assurance Project Plan. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. November.

BW-URS. 2015. 2014 Annual Groundwater Monitoring and Subsurface Injection Report. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. December.

BW-URS. 2017a. 2015 Annual Groundwater Monitoring and Subsurface Injection Report. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. January.

BW-URS. 2017b. 2016 Annual Groundwater Monitoring and Subsurface Injection Report. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. November.

Bouwer, E.J. 1994. Bioremediation of Chlorinated Solvents Using Alternate Electron Acceptors. In: Norris, R.D., R.E. Hinchee, R. Brown, P.L. McCarty, L. Semprini, J.T. Wilson, D.H. Kampbell, M. Reinhard, E.J. Bouwer, R.C. Borden, T.M. Vogel, J.M. Thomas, and C.H. Ward, eds. Handbook of Bioremediation. Boca Raton, FL. Lewis Publishers.

Brice Engineering, LLC (Brice). 2019. Groundwater Recovery and Treatment System Operation and Maintenance Manual. Final. January.

Brice and AECOM Technical Services (Brice-AECOM). 2018. Addendum 2, Uniform Federal Policy – Quality Assurance Project Plan. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. October.

Brice-AECOM. 2019a. Addendum 3, Uniform Federal Policy – Quality Assurance Project Plan. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. November.

Brice-AECOM. 2019b. 2018 Annual Groundwater Monitoring Report. Remedial Action Operations Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. December.

Brice-AECOM. 2020a. OU1 Rebound Study Letter Report – Baseline Event. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. June.

Brice-AECOM. 2020b. 2019 Annual Groundwater Monitoring Report. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. October.

Brice-AECOM. 2020c. OU1 Rebound Study Letter Report – Quarter 2 Event. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. October.

Brice-AECOM. 2020d. OU1 Rebound Study Letter Report – Quarter 3 Event. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. November.

Brice-AECOM. 2021a. OU1 Rebound Study Letter Report – Quarter 4 Event. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. April.

Brice-AECOM. 2021b. 2020 Annual Groundwater Monitoring Report. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. August.

Brice-AECOM. 2021c. OU1 Rebound Study Letter Report – Quarter 5 Event. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. September.

Brice-AECOM. 2022. OU1 Rebound Study Letter Report – Quarter 6 Event. Remedial Action Operation Groundwater Treatment Facility at OU1 and Groundwater Monitoring at OU1/OU3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. Final. February.

Buscheck, T.E. and C.M. Alcantar. 1995. "Regression Techniques and Analytical Solutions to Demonstrate Intrinsic Bioremediation." In: Proceedings of the 1995 Battelle International Conference on In-Situ and On-Site Bioreclamation. April 1995.

Central Platte Natural Resource District (CPNRD). 2021. Groundwater Management Plan for the Enforcement of the Nebraska Management and Protection Act. https://www.cpnrd.org/water-resources/groundwater-quality.

City of Grand Island. 2021. Grand Island City Codes. http://city.grand-island.com/City_Code/ref_code_index.htm.

Code of Federal Regulations (CFR). 2012. Title 40, Part 141, Subpart G – National Primary Drinking Water Regulations: Maximum Contaminant Levels and Maximum Residual Disinfectant Levels. https://www.ecfr.gov.

Dames & Moore. 1995. Cornhusker Army Ammunition Plant Groundwater Interim Remedial Action Design-Basis Model. Prepared for RUST Environment and Infrastructure. September.

Graves, Duane. 1995. Test Protocols for Evaluation Natural Attenuation in Groundwater. Preprint. Biotechnology Applications Center. ITT Corporation, Knoxville, Tennessee. August.

Guiger, N. and T. Franz. 1995. VISUAL MODFLOW – The Integrated Modeling Environment for MODFLOW and MODPATH. Waterloo Hydrogeologic Software. Waterloo, Ontario, Canada.

Hall County, Nebraska (Hall County). 2021. Hall County/Grand Island GIS Viewer Interactive Map, accessed September 2021. https://www.hallcountyne.gov.

Howard P.H., R.S. Boethling, W.F. Jarvis, W.M. Meylan, and E.M. Michalenko. 1991. Handbook of Environmental Degradation Rates. Lewis Publishers, Ann Arbor, MI.

McDonald, M.G. and A.W. Harbaugh. 1988. MODFLOW – A Modular Three-Dimensional Finite Difference Ground-Water Flow Model. Techniques of Water Resources Investigations of the United States Geological Survey, Book 6, Chapter A1. U.S. Geological Survey. Reston, Virginia.

McFarlan, Sara and Guang Yao. 2002. Anaerobic Trinitrotoluene Pathway Map. http:// umbbd.ahc.umn.edu/tnt2/tnt2_map.html.

MKM Engineers, Inc. (MKM). 2004. Final Thermal Decomposition, Demolition, and 5X Certification of LL1, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. December.

MKM. 2005a. Final Thermal Decomposition, Demolition, and 5X Certification of LL2, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. March.

MKM. 2005b. Final Thermal Decomposition, Demolition, and 5X Certification of LL3, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. October.

Nebraska Department of Environmental Quality (NDEQ). 2004. Fact Sheet: NPDES Document NE0131725/PCS58028-P. Former Cornhusker Army Ammunition Plant, Grand Island, NE. May 16.

NDEQ. 2009. Risk-Based Corrective Action at Petroleum Release Sites; Tier 1/Tier 2 Assessments & Reports. May.

Nebraska Department of Natural Resources (NEDNR). 2021. Registered Groundwater Wells Interactive Map, accessed September 2021. http://www.dnr.nebraska.gov/gwr.

PIKA Inc. (PIKA). 2007. Final thermal decomposition, demolition, and 5X certification of Load Line 4, Cornhusker Army Ammunition Plant, Grand Island, Nebraska. October.

Roberts, Jeff and Prasad Kotharu. (2004). Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (anaerobic) Pathway Map. http://umbdd.ahc.umn.edu/rdx2/ rdx2_map.html.

Spalding, R.F. 1998. Reconnaissance Investigation of RDX and Degradation. Cornhusker Army Ammunition Plant, Nebraska. Letter Report to Central Platte NRD. June.

Suthersan, Suthan S. 2002. Natural and Enhanced Remediation Systems. Boca Raton, FL. Lewis Publishers.

URS Greiner Woodward-Clyde Federal Services (URSGWCFS). 1999. March 1999 Sampling Event for the LTM Program. Final Report. Cornhusker Army Ammunition Plant. Prepared for USACE. October.

URSGWCFS. 2001a. Groundwater Flow and Contaminant Fate and Transport Modeling. Final Report. Cornhusker Army Ammunition Plant. Prepared for USACE. April.

URSGWCFS. 2001b. OU1 ROD Amendment. Final Report. Cornhusker Army Ammunition Plant. Prepared for USACE. August.

URS Group, Inc. (URS). 2001. Final Report. Groundwater Flow and Contaminant Fate and Transport Modeling. Cornhusker Army Ammunition Plant. Prepared for USACE. April.

United States Army Corps of Engineers (USACE). 1999. Record of Decision for Remedial Action Operable Unit Three. Final Report. October.

United States Army Corps of Engineers Waterways Experiment Station (USACE WES). 1997. Review of Fate and Transport Processes of Explosives. Technical Report IRRP-97-2. March.

USACE WES. 1998. Transformation of RDX and HMX under Controlled Eh/pH Conditions. Technical Report IRRP-98-2. April.

USACE WES. 1999. Draft Protocol for Evaluating, Selecting, and Implementing Monitored Natural Attenuation at Explosives Contaminated Sites. Technical Report EL-99-10. September.

United States Army Environmental Center (USAEC). 1994. Interim Record of Decision for Cornhusker Army Ammunition Plant Operable Unit 1 – Groundwater. November.

United States Department of Agriculture (USDA). 2004. Survey of Hall County, Nebraska.

United States Environmental Protection Agency (USEPA). 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater. September.

USEPA. 1999. Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites. OSWER Directive 9200.4-17. December.

Watkins-Johnson Environmental, Inc. (WJE). 1993. Site Characterization Document. Cornhusker Army Ammunition Plant. Remedial Investigation and Feasibility Study. Prepared for USACE. June.

Wiedemeier, T.H., M.A. Swanson, D.E. Moutoux, J.T. Wilson, D.H. Kampbell, J.E. Hansen, P. Haas, and F.H Hapelle. 1996. Technical Protocol for Natural Attenuation of Chlorinated Solvents in Groundwater. San Antonio, TX: U.S. Air Force Center for Environmental Excellence.

Woodward-Clyde (W-C). 1999. Final Report. June 1998 Sampling Event for the LTM Program. Cornhusker Army Ammunition Plant. Prepared for USACE. February.

Zheng, Chunmiao and P. Patrick Wang. 1999. “MT3DMS: A modular three-dimensional multispecies transport model for simulation of advection, dispersion, and chemical reactions of contaminants in groundwater systems; documentation and user’s guide,” Contract Report SERDP-99-1, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.

NEBRASKA
Good Life. Great Mission.
DEPT. OF HEALTH AND HUMAN SERVICES

Pete Ricketts, Governor

Public Health Licensure Unit
Certification of Licensure

This certificate serves as primary source verification of licensure in the State of Nebraska as of the close of the business day before 2/12/2021.

Name:	Corey S Anderson
Type:	WD-PIC
Number:	39516
Status:	
Issued:	01/02/2011
Expiration:	12/31/2022
Education:	None on record at this time

Disciplinary/Non-Disciplinary Information:

No disciplinary/non-disciplinary actions taken against this license.

If you have questions about this information, please contact the Licensure Unit at (402) 471-2115 or DHHS.LicensureUnit@nebraska.gov.

NEBRASKA
Good Life. Great Mission.
DEPT. OF HEALTH AND HUMAN SERVICES

Pete Ricketts, Governor

Public Health Licensure Unit
Certification of Licensure

This certificate serves as primary source verification of licensure in the State of Nebraska as of the close of the business day before 4/ 6/2021.

Name:	Jesse V Kalvig
Type:	Well Drilling Contractor
Number:	19210
Status:	Active
Issued:	09/19/2000
Expiration:	12/31/2022
Education:	None on record at this time

Disciplinary/Non-Disciplinary Information:

No disciplinary/non-disciplinary actions taken against this license.

If you have questions about this information, please contact the Licensure Unit at (402) 471-2115 or DHHS.LicensureUnit@nebraska.gov.

Included electronically only on enclosed CD.

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	CA210-21A	WELL NO.	CA210
DATE/TIME COLLECTED	5-19-21 / @0900	PERSONNEL	JG
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES / **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES / **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES / **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	16.85
Time Started	0820	Depth to Water (ft BTOC)	~~6.05~~ 9.05
Time Completed	0900	Water Column Length	7.80
PID Measurements		Well Casing Volume (per ft)	2.47 L
Background	ND	Volume of Water in Well (L)	19.27
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0825	2.5	6.46	12.97	1.528	0.16	219.8	0.55	9.06	0.5
0830	5.0	6.50	13.27	1.569	0.12	212.0	1.38	9.07	0.5
0835	7.5	6.51	13.26	1.573	0.11	210.2	2.00	9.07	0.5
0840	10.0	6.52	13.39	1.590	0.10	206.5	4.71	9.07	0.5
0845	12.5	6.54	14.17	1.612	0.10	202.5	11.31	9.06	0.5
0850	15.0	6.64	14.12	1.614	0.10	195.3	17.03	9.06	0.5
0855	17.5	6.66	14.14	1.619	0.08	192.7	14.14	9.06	0.5
0900	20.0	6.66	14.29	1.611	0.06	192.0	16.39	9.06	0.5
					JG				

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.15 mg/L
Multi-Parameter Probe Unit # 669704
Field Parameters Measured in Flow-Through Cell
Pump Placement Depth = 13 ft
Pump Rate = 0.5 L/min
Well Diameter = 4"
Screen Interval = 7.9 - 17.9

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	61.3	210.0	177.6	**136.9**
DO	0.17	1.99	0.21	**0.66**
PH	5.83	6.75	0.00	**6.44**
Cond.	0.708	1.560	1.545	**1.268**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	CA211-21A	WELL NO.	CA211
DATE/TIME COLLECTED	5-19-21 @ 1010	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	43.10
Time Started	0930	Depth to Water (ft BTOC)	9.14
Time Completed	1010	Water Column Length	33.96
PID Measurements		Well Casing Volume (per ft)	2.47 L
Background	ND	Volume of Water in Well (L)	83.88
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
~~0835~~	2.5	6.34	12.92	0.812	0.71	137.6	21.79	9.16	0.5
0840 JO	5.0	6.29	12.89	0.812	0.69	142.1	12.86	9.16	0.5
0845	7.5	6.30	12.89	0.813	0.69	145.3	16.29	9.16	0.5
0850	10.0	6.31	12.86	0.812	0.69	146.4	18.26	9.17	0.5
0855	12.5	6.31	12.82	0.811	0.69	146.9	21.19	9.17	0.5
1000	15.0	6.33	12.85	0.809	0.69	147.5	36.78	9.16	0.5
1005	17.5	6.33	12.83	0.809	0.69	147.8	40.68	9.15	0.5
1010	20.0	6.33	12.80	0.809	0.70	149.5	40.79	9.15	0.5
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.02 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 38 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 32.8 - 42.8

Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)				
ORP	33.6	188.2	162.3	**127.9**
DO	0.10	0.93	0.75	**0.60**
PH	6.45	6.72	6.72	**6.57**
Cond.	0.662	1.110	1.026	**0.873**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	CA212-21A	WELL NO.	CA212
DATE/TIME COLLECTED	5-19-21 @ 1105	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES / NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES / NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES / NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	67.12
Time Started	1025	Depth to Water (ft BTOC)	9.10
Time Completed	1105	Water Column Length	58.02
PID Measurements		Well Casing Volume (per ft)	2.47 L
Background	ND	Volume of Water in Well (L)	143.31
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1030	2.5	6.98	14.24	0.566	0.12	101.1	127.16	9.10	0.5
1035	5.0	6.81	14.22	0.559	0.11	111.3	155.83	9.10	0.5
1040	7.5	6.75	14.51	0.550	0.09	114.5	197.75	9.10	0.5
1045	10.0	6.71	14.51	0.548	0.07	117.3	246.60	9.10	0.5
1050	12.5	6.69	14.54	0.523	0.05	118.9	263.96	9.10	0.5
1055	15.0	6.68	14.74	0.509	0.05	121.3	472.11	9.10	0.5
1100	17.5	6.67	14.64	0.564	0.06	123.2	465.30	9.10	0.5
1105	20.0	6.65	14.77	0.555	0.05	124.8	470.29	9.10	0.5
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.10 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 62 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 57.0 - 67.0

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	22.3	167.4	161.4	**119.7**
DO	0.05	0.89	0.05	**0.39**
PH	6.64	7.05	6.97	**6.85**
Cond.	0.496	0.732	0.621	**0.616**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	CA213-21A	WELL NO.	CA213
DATE/TIME COLLECTED	5-19-21 @ ~~22.5~~ 1230	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	91.34
Time Started	1145	Depth to Water (ft BTOC)	9.78
Time Completed	1230	Water Column Length	81.56
PID Measurements		Well Casing Volume (per ft)	2.47 L
Background	ND	Volume of Water in Well (L)	201.45
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	22.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1150 ~~1145~~	2.5	8.34	16.81	0.444 ~~0.468~~	2.26	103.2	631.00	9.78	0.5
1155	5.0	7.16	16.31	~~0.460~~ 0.460	0.33	142.7	930.00	9.78	0.5
1200	7.5	7.27	15.52	0.456	0.20	131.9	807.00	9.78	0.5
1205	10.0	7.34	15.52	0.435	0.21	126.8	319.05	9.78	0.5
1210	12.5	7.37	15.61	0.426	0.31	124.9	33.44	9.78	0.5
1215	15.0	7.42	15.96	0.411	0.29	116.8	24.78	9.78	0.5
1220	17.5	7.47	16.49	0.382	0.31	109.2	21.63	9.78	0.5
1225	20.0	7.45	16.35	0.370	0.32	108.3	19.95	9.77	0.5
1230	22.5	7.44	16.59	0.366	0.33	106.5	19.22	9.77	0.5
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.60 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 84 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 79.6 - 89.6

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	17.4	172.3	172.3	**100.2**
DO	0.09	1.51	0.66	**0.59**
PH	7.47	7.82	7.63	**7.62**
Cond.	0.373	0.501	0.447	**0.430**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: CHAAP | PROJECT NO.: 60565355

SAMPLE NO.: NW020-21A | WELL NO.: NW020

DATE/TIME COLLECTED: 5-25-21 @ 0845 | PERSONNEL: GC, JO

SAMPLE METHOD: PRO-ACTIVE SS MONSOON

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NW023-21A
MS/MSD REQUESTED:	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	29.92
Time Started	0805	Depth to Water (ft BTOC)	~~13.33~~ JO 13.36
Time Completed	0845	Water Column Length	16.56
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	40.90
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0810	2.5	6.69	14.64	1.656	7.02	231.0	0.05	13.37	0.5
0815	5.0	~~6.99~~ JO 6.72	12.63	1.643	~~7.00~~ JO 6.98	220.0	0.33	13.36	
0820	7.5	6.74	12.87	1.640	6.94	218.3	0.51	13.36	
0825	10.0	~~6.85~~ JO 6.76	13.11	1.636	6.86	208.9	0.60	13.37	
0830	12.5	6.79	13.10	1.633	6.83	206.7	0.27	13.36	
0835	15.0	6.82	12.95	1.632	6.80	202.0	0.43	13.36	
0840	17.5	6.83	12.73	1.634	6.76	198.2	0.23	13.37	
0845	20.0	6.85	12.86	1.633	6.69	193.0	0.04	13.37	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 15-25

Used a LaMotte meter for turbidity readings.

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	41.1	153.0	138.9	**117.7**
DO	2.72	6.30	5.54	**4.81**
PH	6.19	6.90	6.90	**6.55**
Cond.	0.802	1.510	1.504	**1.176**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW021-21A	WELL NO.	NW021
DATE/TIME COLLECTED	5-25-21 @ 0955	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	45.75
Time Started	0915	Depth to Water (ft BTOC)	13.61
Time Completed	0955	Water Column Length	32.14
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	79.39
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0920	2.5	7.14	12.35	1.063	2.34	183.7	0.59	13.63	0.5
0925	5.0	7.14	12.27	1.064	2.33	172.8	0.25	13.60	
0930	7.5	7.09	12.52	1.077	1.84	159.8	0.33	13.60	
0935	10.0	7.06	12.45	1.084	1.41	158.7	0.47	13.60	
0940	12.5	7.05	12.69	1.088	1.19	159.3	0.28	13.60	
0945	15.0	7.03	12.79	1.091	0.95	161.5	1.01	13.61	
0950	17.5	7.02	13.01	1.084	0.73	155.2	0.47	13.62	
0955	20.0	7.02	13.20	1.084	0.63	148.3	0.00	13.62	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.02 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 39.5 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 37-42

Used a LaMotte meter for turbidity readings.

Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)				
ORP	-110.2	150.0	-110.2	**78.9**
DO	0.04	1.18	0.04	**0.40**
PH	6.53	6.93	6.79	**6.73**
Cond.	0.825	1.180	0.982	**0.985**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW022-21A	WELL NO.	NW022
DATE/TIME COLLECTED	5-25-21 @ 1120	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	66.60
Time Started	1040	Depth to Water (ft BTOC)	13.52
Time Completed	1120	Water Column Length	53.08
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	131.11
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1045	2.5	6.86	13.36	1.335	0.11	-3.8	0.00	13.52	0.5
1050	5.0	6.94	~~13.56~~ 13.56	1.341	0.06	-21.4	0.00	13.52	
1055	7.5	6.95	13.55	1.339	0.05	-22.3	~~0.00~~ 0.0	13.52	
1100	10.0	6.96	13.54	1.338	0.05	-23.6	~~0.00~~ 0.0	13.52	
1105	12.5	6.97	13.56	1.339	0.05	-24.9	0.29	13.52	
1110	15.0	6.99	13.56	1.339	0.04	-26.6	0.00	13.51	
1115	17.5	7.01	13.53	1.338	0.04	-28.5	0.00	13.51	
1120	20.0	7.03	13.49	1.338	0.03	-29.7	0.00	13.51	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.92 mg/L

Used a LaMotte meter for turbidity readings

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 61.5 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 59 - 64

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	-34.9	207.7	-19.9	**51.1**
DO	0.05	1.15	0.08	**0.37**
PH	6.77	7.14	6.97	**6.96**
Cond.	0.964	1.390	1.257	**1.169**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW060-21A	WELL NO.	NW060
DATE/TIME COLLECTED	5-19-21 / 0940	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	20.15
Time Started	0900	Depth to Water (ft BTOC)	11.05
Time Completed	0940	Water Column Length	9.1
PID Measurements		Well Casing Volume (per ft)	2.47
Background	B6	Volume of Water in Well (L)	22.48
Breathing Zone	B6	Casing Volumes to Purge	NA
Well Head	B6	Minimum to Purge (L)	20
Purge Water	B6	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
0905	2.5	6.16	14.26	.112	11.08	338	.57	11.06	500
0910	5.0	~~6.15~~ 6.11	~~14.34~~ 14.84	.107	10.95	255.3	0.76	11.06	"
0915	7.5	6.14	15.04	.107	10.95	236.7	0.85	"	"
0920	10	6.15	15.08	.106	10.94	226.7	0.92	"	"
0925	12.5	6.14	15.20	.105	10.93	221.2	0.86	"	"
0930	15	6.14	15.21	.105	10.91	218.3	0.95	"	"
0935	17.5	6.13	15.28	.105	10.90	216.3	1.00	"	"
0940	20	6.12	15.34	.105	10.89	214.5	0.90	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.1 mg/L

Multi-Parameter Probe Unit # 1 KD

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 15.5 ft

Pump Rate = 500 ml/min KD

Well Diameter = 4"

Screen Interval = 10.0 - 20.0

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	29.2	196.7	196.7	**136.8**
DO	9.26	10.75	10.23	**10.21**
PH	5.82	6.56	6.56	**6.15**
Cond.	0.065	0.203	0.203	**0.124**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW061-21A	WELL NO.	NW061
DATE/TIME COLLECTED	5-19-21 / 1100	PERSONNEL	AE, AK, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NT

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	44.90
Time Started	1015	Depth to Water (ft BTOC)	10.75
Time Completed	1100	Water Column Length	34.15
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	84.35
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	22.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
1020	2.5	6.75	17.74	0.94	0.44	251.9	2.67	10.79	500
1025	5.0	6.73	19.19	0.94	0.54	246.7	8.42	10.79	"
1030	7.5	6.73	20.46	0.93	0.53	244.5	18.47	"	"
1035	10	6.74	19.92	0.92	0.49	242.3	67.03	"	"
1040	12.5	6.74	19.92	0.92	0.49	242.3	118.79	"	"
1045	15	6.75	20.26	0.94	0.42	241.8	52.34	"	"
1050	17.5	6.76	20.22	0.93	0.33	243.9	101.65	"	"
1055	20	6.78	20.63	0.93	0.30	244.5	102.45	"	"
1100	22.50	6.79	20.49	0.92	0.29	243.4	105.42	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = .03 mg/L

Multi-Parameter Probe Unit # 1 KD

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 42.5 ft

Pump Rate = 500 ml/min KD

Well Diameter = 4"

Screen Interval = 40.3 - 45.3

Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)				
ORP	0.1	196.8	35.3	**109.9**
DO	0.03	0.68	0.03	**0.30**
PH	6.59	7.13	7.13	**6.95**
Cond.	0.308	1.070	0.941	**0.759**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW062-21A	WELL NO.	NW062
DATE/TIME COLLECTED	5-19-21 / 1210	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	**YES**	NO	MS/MSD SAMPLE NO.	**NW062-21A MS/MSD**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	63.45
Time Started	1130	Depth to Water (ft BTOC)	10.89
Time Completed	1210	Water Column Length	52.56
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	129.8
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KD
1135	2.5	6.98	16.97	.864	0.29	-32.8	3.69	10.91	500
1140	5.0	7.00	17.10	.843	0.27	-43.9	3.52	"	500
1145	7.5	7.02	17.14	.848	0.26	-54.1	1.64	"	"
1150	10	7.05	18.00	.853	0.23	-53.1	1.87	"	"
1155	12.5	7.05	18.22	.848	0.23	-54.4	0.63	"	"
1200	15	7.05	18.02	.849	0.23	-56.2	2.23	"	"
1205	17.5	7.04	17.84	.854	0.22	-56.6	1.48	"	"
1210	20	7.04	17.69	.853	0.21	-56.9	2.25	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

LaMotte 2020 turb meter - calib 5-19-21

Ferrous Iron = 0.94 mg/L

KD Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 61 ft

Pump Rate = 500 ml/min KD

Well Diameter = 4"

Screen Interval = 58.1 - 63.1

Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)				
ORP	-100.6	38.6	-100.6	**-41.4**
DO	0.05	0.65	0.05	**0.29**
PH	6.71	8.11	7.41	**7.32**
Cond.	0.270	0.883	0.883	**0.658**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW070-21A	WELL NO.	NW070
DATE/TIME COLLECTED	5-19-21 / 1400	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	20.91
Time Started	1320	Depth to Water (ft BTOC)	8.01
Time Completed	1400	Water Column Length	12.9
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	31.86
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
1325	2.5	6.89	14.55	.280	0.40	148.5	2.63	8.01	500
1330	5.0	6.91	15.14	.280	0.37	140.2	2.04	"	"
1335	7.5	6.93	16.19	.281	0.39	137.0	1.83	"	"
1340	10	6.92	13.08	.278	0.17	134.0	2.10	"	"
1345	12.5	6.91	15.11	.280	0.17	132.6	2.04	"	"
1350	15	6.91	15.54	.279	0.18	133.7	2.27	"	"
1355	17.5	6.90	15.84	.280	0.20	133.2	1.91	"	"
1400	20	6.88	15.65	.279	0.19	137.0	2.09	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.04 mg/L

KD Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 16 ft

Pump Rate = 500 ml/min KD

Well Diameter = 4"

Screen Interval = 10.6 - 20.6

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	-307.4	163.2	163.2	**16.6**
DO	0.07	1.59	0.07	**0.51**
PH	6.51	7.25	7.24	**6.94**
Cond.	0.096	0.926	0.926	**0.462**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	NW071-21A	WELL NO.	NW071
DATE/TIME COLLECTED	5-19-21 / 1455	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	60.43
Time Started	1415	Depth to Water (ft BTOC)	7.82
Time Completed	1455	Water Column Length	52.61
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	129.9
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (ORP) (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
1420	2.5	6.38	15.06	0.64	1.90	170.9	2.35	7.82	500
1425	5.0	6.29	14.39	0.64	1.84	177.4	4.40	"	"
1430	7.5	6.30	14.56	0.64	1.84	175.6	1.96	"	"
1435	10	6.32	14.80	0.64	1.84	170.5	2.56	"	"
1440	12.5	6.35	14.56	0.64	1.82	166.6	2.40	"	"
1445	15	6.36	14.19	0.64	1.82	164.9	2.12	"	"
1450	17.5	6.36	14.35	0.64	1.81	164.5	2.13	"	"
1455	20	6.35	14.33	0.64	1.80	165.3	3.03	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS LaMotte 2020 Turb meter - Calib daily

Ferrous Iron = 0.08 mg/L

KD Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 58 ft

Pump Rate = 500 ml/min KD

Well Diameter = 4"

Screen Interval = 55.2 - 60.2

	Historic (7-year average low and high / Q5 or 2020 / Avg in Bold)			
ORP	-151.2	158.1	107.8	**66.5**
DO	0.46	3.43	1.94	**2.20**
PH	6.32	6.62	6.61	**6.45**
Cond.	0.519	0.745	0.686	**0.625**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0017-21A	WELL NO.	G0017
DATE/TIME COLLECTED	5-25-21 / 1520	PERSONNEL	ME, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	33.93
Time Started	1425	Depth to Water (ft BTOC)	11.42
Time Completed	1520	Water Column Length	22.51
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	55.6
Breathing Zone	NO	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	27.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
1430	2.5	7.41	12.62	1.42	0.09	-293.2	3.26	11.60	500
1435	5.0	7.20	12.80	1.43	0.04	-284.0	3.30	11.61	"
1440	7.5	7.20	12.78	1.43	0.03	-285.2	2.25	"	"
1445	10	7.27	12.87	1.46	0.03	-292.7	2.02	"	"
1450	12.5	7.31	12.83	1.49	0.02	-303.6	3.53	"	"
1455	15	7.31	12.67	1.52	0.02	-308.3	3.69	"	"
1500	17.5	7.25	12.41	1.65	0.02	-311.7	4.06	"	"
1505	20	7.22	12.86	1.76	0.02	-315.6	2.93	"	"
1510	22.5	7.21	12.78	1.81	0.02	-322.1	3.96	"	"
1515	25	7.21	12.73	1.83	0.01	-324.5	3.39	"	"
1520	27.5	7.21	12.88	1.85	0.01	-328.6	4.93	"	"

FIELD EQUIPMENT AND CALIBRATION

Sulfer odor

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - @ DAILY	

GENERAL COMMENTS

KD Ferrous Iron = ~~0.65~~ 0.59 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 26.5 ft

Pump Rate = 500 ml/min

Well Diameter = 4"

Screen Interval = 16-31

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-338.5	-293.4	-335.0	**-320.1**
DO	0.22	1.77	0.38	**0.69**
PH	6.86	7.24	7.08	**7.04**
Cond.	0.999	1.689	1.610	**1.433**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0022-21A	WELL NO.	G0022
DATE/TIME COLLECTED	5-25-21/1140	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	34.98
Time Started	1100	Depth to Water (ft BTOC)	10.55
Time Completed	1140	Water Column Length	24.43
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	60.34
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	NM	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
1105	2.5	6.80	12.12	0.97	0.08	22.1	1.16	10.62	500
1110	5.0	6.51	12.09	0.96	0.05	37.4	0.92	11	11
1115	7.5	6.52	12.03	0.95	0.04	35.4	1.50	11	11
1120	10	6.65	11.99	0.94	0.06	26.5	1.99	11	11
1125	12.5	6.69	12.00	0.94	0.07	22.0	1.76	11	11
1130	15	6.69	12.10	0.94	0.09	19.5	0.92	11	11
1135	17.5	6.69	12.11	0.94	0.11	18.9	1.02	11	11
1140	20	6.68	11.99	0.94	0.10	18.2	0.87	11	11

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Bottle Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 0.35 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27.5 ft

Pump Rate = 500 ml/min

Well Diameter = 4"

Screen Interval = 18-33

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-94.9	141.4	-94.9	**44.5**
DO	0.73	3.32	3.32	**1.98**
PH	6.49	7.08	6.87	**6.81**
Cond.	0.646	0.862	0.850	**0.796**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0023-21A	WELL NO.	G0023
DATE/TIME COLLECTED	5-21-21 @ 1405	PERSONNEL	GG / JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	35.85
Time Started	1325	Depth to Water (ft BTOC)	11.60
Time Completed	1405	Water Column Length	24.25
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	59.90
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1330	2.5	6.57	17.88	0.863	0.09	-76.9	44.62 ~~76.9~~	11.65	0.5
1335	5.0	6.40	17.89	0.862	0.10	-71.3	29.59	11.66	
1340	7.5	6.40	17.91	0.861	0.10	-71.5	30.28	11.68	
1345	10.0	6.37	17.74	0.861	0.11	-73.3	27.98	11.69	
1350	12.5	6.37	17.79	0.858	0.14	-76.3	21.94	11.69	
1355	15.0	6.38	17.81	0.859	0.17	-83.1	16.16	11.69	
1400	17.5	6.38	17.82	0.858	0.17	-83.0	16.04	11.69	
1405	20.0	6.39	17.69	0.857	0.16	-85.8	16.31	11.69	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 8.25 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 26 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 19-34

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-114.0	-18.2	-114.0	**-63.2**
DO	0.34	0.92	0.34	**0.48**
PH	5.96	6.45	6.45	**6.27**
Cond.	0.737	1.015	0.882	**0.864**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0024-21A	WELL NO.	G0024
DATE/TIME COLLECTED	5-26-21 @ 0830	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft BTOC)	33.28
Time Started	0750	Depth to Water (ft BTOC)	10.65
Time Completed	0830	Water Column Length	22.63
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	55.90
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0755	2.5	6.51	11.38	0.617	5.16	243.1	0.00	10.85	0.5
0800	5.0	6.51	11.46	0.617	5.15	242.8	0.00	10.85	
0805	7.5	6.58	11.76	0.615	5.12	234.2	0.00	10.90	
0810	10.0	6.62	11.85	0.615	5.12	232.1	0.00	10.90	
0815	12.5	6.67	11.94	0.614	5.09	230.0	0.00	10.90	
0820	15.0	6.70	12.09	0.614	5.09	226.3	0.00	10.90	
0825	17.5	6.73	12.20	0.614	5.07	223.0	0.00	10.90	
0830	20.0	6.74	12.24	0.613	5.07	221.4	0.00	10.90	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.04 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23.5 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 16-31

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	22.5	175.4	175.4	**112.5**
DO	4.88	8.09	5.31	**6.04**
PH	6.19	6.71	6.64	**6.52**
Cond.	0.226	1.170	0.654	**0.734**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0044-21A	WELL NO.	G0044
DATE/TIME COLLECTED	5-24-21 @ 0840	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	28.26
Time Started	0800	Depth to Water (ft BTOC)	13.98
Time Completed	0840	Water Column Length	14.28
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	35.27
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0805	2.5	6.92	11.97	1.947	8.98	224.6	0.00	13.95	0.5
0810	5.0	6.97	12.13	2.114	7.39	214.9	0.00	14.00	↓
0815	7.5	~~6.77~~ 7.01	12.51	2.162	6.76	206.3	0.00	14.00	
0820	10.0	7.04	12.52	2.233	6.38	204.9	0.00	14.00	
0825	12.5	7.10	12.60	2.259	6.12	203.9	0.00	14.00	
0830	15.0	7.10	12.64	2.266	6.08	202.4	0.00	14.00	
0835	17.5	7.10	12.62	2.242	6.12	202.2	0.00	14.00	
0840	20.0	7.11	12.65	2.193	6.25	202.0	0.00	14.00	
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 11-26

Used a LaMotte meter for turbidity readings.

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-182.6	207.8	196.0	**43.6**
DO	1.18	5.79	5.79	**3.51**
PH	6.63	7.03	6.63	**6.90**
Cond.	0.903	2.281	1.160	**1.654**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0045-21A	WELL NO.	G0045
DATE/TIME COLLECTED	5-25-21 / 1615	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	58.56
Time Started	1535	Depth to Water (ft BTOC)	10.95
Time Completed	1615	Water Column Length	47.61
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	117.56
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
1540	2.5	7.84	12.87	2.43	6.82	-210.0	1.27	10.96	500
1545	5.0	7.34	12.99	2.69	1.40	-231.8	4.39	10.95	"
1550	7.5	7.22	12.90	2.94	0.14	-256.7	5.14	"	"
1555	10	7.22	12.95	3.00	0.06	-262.4	4.99	"	"
1600	12.5	7.14	12.84	3.00	0.04	-265.0	4.76	"	"
1605	15	7.13	12.91	3.02	0.03	-267.0	4.23	"	"
1610	17.5	7.13	12.87	3.02	0.04	-267.1	4.13	"	"
1615	20	7.13	12.93	3.02	0.03	-268.5	3.64	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

LA Motte Turb meter - Daily

GENERAL COMMENTS

Ferrous Iron = 0.65 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 53.5 ft

Pump Rate = 500 ml / min

Well Diameter = 4"

Screen Interval = 45-55

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-123.0	174.4	-123.0	**-0.4**
DO	0.38	1.47	0.38	**0.63**
PH	7.01	7.19	7.18	**7.13**
Cond.	1.991	2.950	2.950	**2.574**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0048-21A	WELL NO.	G0048
DATE/TIME COLLECTED	5-21-21 @ 1145	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	17.92
Time Started	1105	Depth to Water (ft BTOC)	10.63
Time Completed	1145	Water Column Length	7.29
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	18.01
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1110	2.5	6.03	13.98	0.618	0.11	76.4	14.23	10.75	0.5
1115	5.0	6.09	13.98	0.622	0.08	89.0	16.43	10.75	
1120	7.5	6.14	13.97	0.632	0.10	96.2	11.48	10.75	
1125	10.0	6.23	14.07	0.641	0.12	98.0	10.04	10.75	
1130	12.5	6.33	14.05	0.654	0.15	99.6	6.37	10.75	
1135	15.0	6.34	13.98	0.664	0.15	101.2	4.73	10.75	
1140	17.5	6.35	14.17	0.674	0.17	102.6	3.64	10.75	
1145	20.0	6.35	14.10	0.671	0.20	102.8	3.38	10.75	
			20						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.12 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 13 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 6-16

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	68.9	192.9	138.9	**138.9**
DO	0.43	3.29	0.43	**1.82**
PH	5.40	6.13	6.13	**5.81**
Cond.	0.449	0.969	0.969	**0.688**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0049-21A	WELL NO.	G0049
DATE/TIME COLLECTED	5-21-21 @ 1255	PERSONNEL	JQ
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	58.31
Time Started	1215	Depth to Water (ft BTOC)	11.13
Time Completed	1255	Water Column Length	47.18
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	116.53
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1220	2.5	7.22	14.57	1.308	0.19	-105.7	10.98	11.15	0.5
1225	5.0	7.03	14.45	1.307	0.14	-106.4	5.78	11.15	↓
1230	7.5	6.99	14.47	1.305	0.09	-106.8	5.33	11.15	↓
1235	10.0	6.99	14.80	1.294	0.05	-110.6	6.42	11.16	↓
1240	12.5	7.00	14.85	1.291	0.04	-111.0	1.50	11.16	↓
1245	15.0	7.00	14.95	1.287	0.04	-110.9	1.62	11.16	↓
1250	17.5	7.02	15.18	1.279	0.06	-111.0	2.17	11.16	↓
1255	20.0	7.02	15.18	1.277	0.07	-109.7	1.37	11.16	↓
				JQ					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.81 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 51 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 46-56

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-86.0	-41.6	-86.0	**-67.1**
DO	0.26	1.19	0.34	**0.46**
PH	6.75	7.16	7.13	**7.00**
Cond.	0.752	1.360	1.360	**1.051**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0066R-21A	WELL NO.	G0066R
DATE/TIME COLLECTED	5-23-21 / 1210	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	32.60
Time Started	1130	Depth to Water (ft BTOC)	14.37
Time Completed	1210	Water Column Length	18.23
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.3
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20 KD

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
1135	2.5	6.57	12.59	1.82	0.04	-322.4	5.16	14.45	500
1140	5.0	6.41	12.59	1.81	0.02	-339.2	4.18	11	11
1145	7.5	6.43	12.53	1.80	0.01	-349.3	2.71	11	11
1150	10	6.47	12.62	1.80	0.01	-353.4	2.62	11	11
1155	12.5	6.48	12.46	1.81	0.01	-351.3	2.44	11	11
1200	15.0	6.49	12.56	1.80	0.01	-351.5	2.48	11	11
1205	17.5	6.50	12.64	1.80	0.01	-345.9	2.27	11	11
1210	20	6.51	12.63	1.81	0.01	-343.1	2.06	11	11

APP

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb Meter	Daily

GENERAL COMMENTS

Ferrous Iron = 2.15 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27.5 ft

Pump Rate = 500 ml / min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-87.9	-11.7	-74.0	**-50.7**
DO	0.38	1.57	0.77	**0.79**
PH	6.05	7.01	7.01	**6.49**
Cond.	1.016	1.830	1.830	**1.417**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0067-21A	WELL NO.	G0067
DATE/TIME COLLECTED	5-22-21 @ 0940	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	22.52
Time Started	0900	Depth to Water (ft BTOC)	10.27
Time Completed	0940	Water Column Length	12.25
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	30.26
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0905	2.5	6.40	12.91	0.787	4.42	162.8	0.00	10.25	0.5
0910	5.0	6.36	13.57	0.786	4.45	169.9	0.00	10.28	
0915	7.5	6.36	14.15	0.787	4.42	172.6	0.00	12.27	
0920	10.0	6.39	14.13	0.783	4.49	172.9	0.00	12.26	
0925	12.5	6.39	14.33	0.784	4.49	173.1	0.00	12.26 JO	
0930	15.0	6.39	13.48	0.775	4.56	176.1	0.00	~~13.48~~ 12.26	
0935	17.5	6.38	13.36	0.773	4.59	176.7	0.00	12.26	
0940	20.0	6.38	13.46	0.781	4.63	178.5	0.00	12.26	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 15 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 5-20

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	73.1	162.7	90.0	**108.8**
DO	4.77	7.19	5.33	**5.86**
PH	5.82	6.78	6.78	**6.33**
Cond.	0.484	0.694	0.694	**0.625**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0070-21A	WELL NO.	G0070
DATE/TIME COLLECTED	5-20-21 @ 1250	PERSONNEL	JO RH
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	**YES**	NO	MS/MSD SAMPLE NO.	**G0070-21A MS/MSD**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	82.65
Time Started	1210	Depth to Water (ft BTOC)	13.99
Time Completed	1250	Water Column Length	68.66
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	169.59
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1215	2.5	6.97	14.11	0.453	7.10	125.8	0.00	13.99	0.5
1220	5.0	7.12	14.16	0.452	6.21	144.9	0.04	14.10	0.5
1225	7.5	7.14	14.24	0.452	6.18	146.4	0.07	14.15	0.5
1230	10.0	7.17	14.56	0.451	5.87	154.1	0.05	14.18	0.5
1235	12.5	7.14	14.20	0.452	5.49	160.9	0.04	14.17	0.5
1240	15.0	7.12	14.32	0.451	5.38	166.7	0.02	14.17	0.5
1245	17.5	7.10	14.30	0.452	5.10	175.7	0.00	14.18	0.5
1250	20.0	7.09	14.32	0.451	5.09	176.3	0.00	14.19	0.5
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 77.5 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 75-80

Used a LaMotte turbidity meter for turbidity readings.

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	16.5	120.0	84.2	**80.2**
DO	0.42	3.29	1.80	**1.54**
PH	6.78	7.12	7.02	**6.96**
Cond.	0.354	0.511	0.427	**0.430**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0075-21A	WELL NO.	G0075
DATE/TIME COLLECTED	5-20-21 @ 1000	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	37.71
Time Started	0920	Depth to Water (ft BTOC)	13.94
Time Completed	1000	Water Column Length	23.77
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	58.71
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0925	2.5	6.91	12.61	0.902	0.08	~~0.0~~ 127.4	~~127.4~~ 0.0	13.98	0.5
0930	5.0	6.78	12.61	0.901	0.04	136.4	0.0	14.00	0.5
0935	7.5	6.73	12.68	0.900	0.01	139.1	0.0	14.00	0.5
0940	10.0	6.72	12.70	0.901	0.01	139.7	0.0	14.01	0.5
0945	12.5	6.70	12.53	0.900	0.01	140.3	0.0	14.02	0.5
0950	15.0	6.69	12.62	0.901	0.02	142.3	0.0	14.02	0.5
0955	17.5	6.68	12.59	0.900	0.01	143.1	0.0	14.01	0.5
1000	20.0	6.68	12.57	0.900	0.01	143.9	0.0	14.01	0.5
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.10 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 30 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 25-35

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	36.8	257.3	88.2	**125.5**
DO	0.03	6.86	2.09	**1.81**
PH	6.44	6.98	6.98	**6.67**
Cond.	0.650	0.995	0.809	**0.836**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0076-21A	WELL NO.	G0076
DATE/TIME COLLECTED	5-20-21 @ 1110	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	65.20
Time Started	1030	Depth to Water (ft BTOC)	13.72
Time Completed	1110	Water Column Length	51.48
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	127.16
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
						-21.1			
1035	2.5	6.68	13.09	1.273	0.06	~~-127.3~~ 70	12.28	13.72	0.5
1040	5.0	6.68	13.11	1.272	0.04	-19.0	5.90	13.72	0.5
1045	7.5	6.68	13.23	1.270	0.02	-16.7	4.16	13.72	0.5
1050	10.0	6.68	13.22	1.269	0.01	-20.2	3.79	13.73	0.5
1055	12.5	6.65	13.37	1.267	0.01	-15.0	0.98	13.72	0.5
1100	15.0	6.65	13.38	1.266	0.02	-13.7	0.24	13.72	0.5
1105	17.5	6.65	13.42	1.266	0.02	-9.7	0.19	13.73	0.5
1110	20.0	6.65	13.45	1.264	0.01	-10.4	0.18	13.74	0.5
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 2.42 mg/L

Used a La Motte turbidy meter for turbidity reading

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 59 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 54-64

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-49.0	83.2	-49.0	**8.3**
DO	0.05	1.91	0.05	**0.66**
PH	6.59	6.93	6.81	**6.75**
Cond.	0.870	1.260	1.135	**1.078**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0077-21A	WELL NO.	G0077
DATE/TIME COLLECTED	5-26-21 @ 0930	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft BTOC)	37.70
Time Started	0850	Depth to Water (ft BTOC)	11.03
Time Completed	0930	Water Column Length	26.67
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	65.87
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	30
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0855	2.5	6.79	12.30	0.661	5.61	191.3	0.49	11.08	0.5
0900	5.0	6.80	12.45	0.695	5.11	184.7	0.00	11.08	↓
0905	7.5	6.83	12.54	0.752	4.00	178.0	0.00	11.08	
0910	10.0	6.84	12.59	0.791	3.33	174.7	0.00	11.08	
0915	12.5	6.85	12.57	0.825	2.69	173.1	0.00	11.08	
0920	15.0	6.86	12.82	0.850	2.21	172.4	0.00	11.08	
0925	17.5	6.87	12.77	0.872	1.81	167.3	0.00	11.08	
0930	20.0	6.87	12.79	0.881	1.55	165.7	0.00	11.08	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 30 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 25-35

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	20.4	194.5	194.5	**101.7**
DO	1.86	5.43	2.34	**2.98**
PH	6.53	6.75	6.61	**6.65**
Cond.	0.620	1.012	0.795	**0.819**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0078-21A	WELL NO.	G0078
DATE/TIME COLLECTED	5-26-21 @ 1030	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft BTOC)	62.80
Time Started	0950	Depth to Water (ft BTOC)	11.02
Time Completed	1030	Water Column Length	51.78
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	127.90
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
						-13.4 JO			
0955	2.5	6.96	14.29	1.135	0.22	~~0.22~~	0.11	11.02	0.5
1000	5.0	6.95	14.36	1.135	0.17	-17.2	0.00	11.02	
1005	7.5	6.96	14.82	1.134	0.14	-20.2	0.00	11.02	
1010	10.0	6.96	14.77	1.130	0.12	-21.6	0.06	11.02	
1015	12.5	6.95	14.87	1.124	0.11	-22.2	0.00	11.02	
1020	15.0	6.95	15.01	1.122	0.09	-21.7	0.08	11.02	
1025	17.5	6.95	14.94	1.120	0.09	-21.4	0.00	11.02	
1030	20.0	6.95	14.93	1.118	0.08	-21.5	0.00	11.02	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 1.09 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 55 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 50-60

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-21.2	68.0	-10.9	**15.9**
DO	0.09	0.45	0.10	**0.23**
PH	6.78	7.10	6.78	**6.89**
Cond.	0.878	1.280	0.957	**1.062**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0079-21A	WELL NO.	G0079
DATE/TIME COLLECTED	5-20-21 @ 0905	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	19.62
Time Started	0825	Depth to Water (ft BTOC)	14.18
Time Completed	0905	Water Column Length	5.44
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	13.44
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0830	2.5	6.28	12.22	0.642	0.46	131.2	0.00	14.18	0.5
0835	5.0	6.41	12.10	0.649	0.48	122.7	0.00	14.18	0.5
0840	7.5	6.45	12.14	0.658	0.62	119.1	0.00	14.19	0.5
0845	10.0	6.46	12.05	0.661	0.62	120.0	0.00	14.19	0.5
0850	12.5	6.48	12.33	0.665	0.64	120.3	0.00	14.19	0.5
0855	15.0	6.50	12.21	0.667	0.75	119.5	0.00	14.20	0.5
0900	17.5	6.51	12.15	0.669	0.75	120.3	0.00	14.21	0.5
0905	20.0	6.51	12.23	0.666	0.88	123.7	0.00	14.21	0.5
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.03 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 16 ft

Pump Rate = 0.5 L/min

Well Diameter = 4"

Screen Interval = 8-18

Switched to using a LaMotte turbidity meter.

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	18.5	170.4	81.8	**102.1**
DO	1.03	7.99	2.51	**4.40**
PH	5.73	6.67	6.67	**6.27**
Cond.	0.174	0.706	0.575	**0.418**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP JO	PROJECT NO.	60565355
SAMPLE NO.	~~G0086-21A~~ G0080-21A	WELL NO.	~~G0086~~ G0080 JO
DATE/TIME COLLECTED	5-20-21 @ 1450	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	40.30
Time Started	1410	Depth to Water (ft BTOC)	12.49
Time Completed	1450	Water Column Length	27.81
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	17.24
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1415	2.5	6.35	13.04	0.630	0.03	198.1	1.33	12.51	0.5
1420	5.0	6.41	13.06	0.636	0.01	192.3	0.00	12.52	0.5
1425	7.5	6.49	13.05	0.647	0.01	185.6	0.00	12.52	0.5
1430	10.0	6.52	13.30	0.658	0.02	171.4	0.00	12.52	0.5
1435	12.5	6.50	13.18	0.688	0.02	167.2	0.00	12.52	0.5
1440	15.0	6.50	13.20	0.692	0.01	168.2	0.00	12.51	0.5
1445	17.5	6.51	13.11	0.697	0.03	165.8	0.00	12.52	0.5
1450	20.0	6.51	13.19	0.701	0.04	170.1	0.00	12.52	0.5
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # SN 669704

Used a LaMotte turbidity meter for turbidity readings

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 33 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 28-38

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	12.2	193.8	70.7	**103.8**
DO	0.05	1.14	0.06	**0.42**
PH	6.43	7.03	6.92	**6.80**
Cond.	0.585	0.923	0.808	**0.764**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0081-21A	WELL NO.	G0081
DATE/TIME COLLECTED	5-20-21/920	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	41.30
Time Started	815	Depth to Water (ft BTOC)	13.22
Time Completed	920	Water Column Length	28.08
PID Measurements		Well Casing Volume (per ft)	~~2.47~~ 0.62
Background	ND	Volume of Water in Well (L)	~~69.3~~ 17.4
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	32.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
~~815~~ 820	2.5	6.27	16.3	0.84	0.37	242.5	3.10	13.22	500
825	5.0	6.29	16.85	0.84	0.41	~~256~~ 236.3	5.58	"	"
830	7.5	6.35	16.88	0.83	0.42	225.3	4.08	"	"
835	10	6.36	16.96	0.82	0.42	218.1	4.11	"	"
840	12.5	6.36	17.06	0.82	0.42	251.4	3.89	"	"
845	15	6.35	17.26	0.82	0.43	308.2	3.29	"	"
850	17.5	6.35	17.40	0.80	0.43	259.1	2.96	"	"
855	20	6.35	17.46	0.80	0.42	240.0	3.31	"	"
900	22.5	6.34	17.61	0.79	0.42	229.0	2.65	"	"
905	25	6.35	17.66	0.79	0.41	221.0	2.35	"	"
910	27.5	6.35	17.61	0.79	0.40	213.7	2.34	"	"
915	30	6.37	17.53	0.78	0.40	206.6	2.00	"	"
920	32.5	~~6.36~~ 6.38	17.54	0.78	0.39	204.1	2.03	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS LA Motte Turb Meter – Calib. daily

Ferrous Iron = 0.04 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 36 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 28-38

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-25.1	174.2	-25.1	**59.8**
DO	0.05	1.63	0.05	**0.50**
PH	6.00	6.51	6.51	**6.25**
Cond.	0.550	1.020	0.891	**0.772**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0082-21A	WELL NO.	G0082
DATE/TIME COLLECTED	5-20-21 / 1040	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	41.01
Time Started	955	Depth to Water (ft BTOC)	13.92
Time Completed	1040	Water Column Length	27.08
PID Measurements		Well Casing Volume (per ft)	~~0.62~~ 0.62
Background	ND	Volume of Water in Well (L)	16.8
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	22.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
1000	2.5	6.15	16.01	.877	0.28	47.9	3.91	13.92	500
1005	5.0	6.15	16.16	.872	0.25	56.2	5.20	"	"
1010	7.5	6.17	16.20	.868	0.22	65.2	4.61	"	"
1015	10	6.20	16.17	.866	0.19	74.1	3.34	"	"
1020	12.5	6.22	16.36	.865	0.17	82.3	2.70	"	"
1025	15	6.22	16.45	.864	0.15	89.8	2.56	"	"
1030	17.5	6.23	16.52	.865	0.14	96.5	1.82	"	"
1035	20	6.23	16.58	.860	0.13	102.5	1.76	"	"
1040	22.5	6.24	16.75	.860	0.13	105.6	1.61	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS LA Motte Turb meter - calib daily

Ferrous Iron = 0 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 36 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 28-38

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-21.0	164.0	-21.0	**59.2**
DO	0.06	1.40	0.13	**0.39**
PH	6.21	6.62	6.62	**6.37**
Cond.	0.488	0.858	0.790	**0.706**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0083-21A	WELL NO.	G0083
DATE/TIME COLLECTED	5-21-21 @ 0850	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	33.48
Time Started	0810	Depth to Water (ft BTOC)	9.50
Time Completed	0850	Water Column Length	23.98
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	14.87
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0815	2.5	6.55	12.79	1.324	0.02	233.0	21.13	9.54	0.5
0820	5.0	6.64	12.79	1.324	0.03	226.0	15.22	9.54	
0825	7.5	6.66	12.80	1.325	0.08	224.6	10.89	9.54	
0830	10.0	6.69	12.83	1.323	0.10	220.7	3.34	9.55	
0835	12.5	6.69	12.83	1.322	0.13	220.1	0.47	9.55	
JO 0840 ~~0900~~	15.0	6.71	12.81	1.322	0.15	219.3	0.00	9.54	
0845	17.5	6.71	12.86	1.321	0.17	219.1	0.00	9.54	
0850	20.0	6.71	12.87	1.319	0.21	218.6	0.00	9.54	
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.08 mg/L

Used a LaMotte turbidity meter for turbidity readings

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 26 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 21-31

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	5.5	156.6	76.0	**100.6**
DO	0.16	1.36	0.37	**0.54**
PH	6.45	6.83	6.67	**6.67**
Cond.	0.755	1.500	1.500	**1.039**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0084-21A	WELL NO.	G0084
DATE/TIME COLLECTED	5-24-21 / 1450	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	32.91
Time Started	1410	Depth to Water (ft BTOC)	15.24
Time Completed	1450	Water Column Length	17.67
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	10.95
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
1415	2.5	6.63	12.45	1.03	0.08	-45.3	13.6	15.31	500
1420	5.0	6.43	12.46	1.07	0.05	-71.4	4.90	"	"
1425	7.5	6.43	12.67	1.06	0.04	-86.3	3.21	"	"
1430	10	6.46	12.84	1.05	0.03	-93.9	2.64	"	"
1435	12.5	6.52	12.56	1.06	0.03	-102.6	3.37	"	"
1440	15.0	6.54	12.50	1.07	0.03	-109.7	1.97	"	"
1445	17.5	6.54	12.68	1.07	0.03	-112.6	2.03	"	"
1450	20	6.54	12.52	1.06	0.02	-113.7	1.93	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 2.72 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 28 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-97.0	64.7	-97.0	**-38.9**
DO	0.32	4.49	0.39	**1.43**
PH	6.00	6.97	6.97	**6.48**
Cond.	0.636	0.975	0.975	**0.819**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0085-21A	WELL NO.	G0085
DATE/TIME COLLECTED	5-19-21 @ 1520	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		RH

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-19-21	Well Depth (ft BTOC)	32.98
Time Started	1440	Depth to Water (ft BTOC)	13.40
Time Completed	1520	Water Column Length	19.58
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.14
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1445	2.5	7.00	15.05	1.230	0.01	-55.9	5.66	13.40	0.5
1450	5.0	6.98	15.65	1.219	0.06	-56.1	3.84	13.40	0.5
1455	7.5	6.97	15.34	1.206	0.01	-66.2	3.58	13.40	0.5
1500	10.0	6.97	15.06	1.197	0.03	-71.7	4.12	13.41	0.5
1505	12.5	6.96	15.19	1.195	0.04	-77.1	3.57	13.42	0.5
1510	15.0	6.95	16.02	1.194	0.04	-79.1	3.62	13.42	0.5
1515	17.5	6.95	16.74	1.195	0.05	-78.2	3.75	13.43	0.5
1520	20.0	6.94	16.88	1.195	0.05	-77.6	3.83	13.43	0.5
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 3.54 mg/L

Multi-Parameter Probe Unit # 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 25 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-125.5	66.7	-33.0	**-32.7**
DO	0.20	2.52	0.57	**1.03**
PH	5.74	7.06	7.06	**6.59**
Cond.	0.702	1.294	1.170	**1.027**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0086-21A JO	WELL NO.	G0086
DATE/TIME COLLECTED	~~5-25-21~~ 5-25-21 @ 1405	PERSONNEL	JO GC
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21 JO	Well Depth (ft BTOC)	40.30
Time Started	1325	Depth to Water (ft BTOC)	11.98
Time Completed	1405	Water Column Length	28.32
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	17.56
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
							0.00	JO	
1330	2.5	6.35	14.08	0.989	0.14	196.1	~~0.42~~ JO	Ø 10.92	0.5
1335	5.0	6.54	14.03	0.985	0.13	194.7	0.00 JO	10.93	
1340	7.5	6.57	14.13	0.981	0.12	192.2	0.00	10.93	
1345	10.0	6.57	14.09	0.980	0.12	192.1	0.06	10.92	
1350	12.5	6.59	14.37	0.978	0.13	190.5	0.00	10.92	
1355	15.0	6.62	14.42	0.974	0.13	188.8	0.21	10.93	
1400	17.5	6.66	14.36	0.971	0.13	186.4	0.87	10.93	
1405	20.0	6.67	14.51	0.966	0.13	186.9	0.38	10.93	

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.02 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 33 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 28-38

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	12.2	193.8	70.7	**103.8**
DO	0.05	1.14	0.06	**0.42**
PH	6.43	7.03	6.92	**6.80**
Cond.	0.585	0.923	0.808	**0.764**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0087-21A	WELL NO.	G0087
DATE/TIME COLLECTED	5-25-21 @ 1245	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	37.56
Time Started	1205	Depth to Water (ft BTOC)	11.34
Time Completed	1245	Water Column Length	26.22
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	16.26
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1210	2.5	6.47	13.57	0.788	0.29	64.0	0.14	11.29	0.5
1215	5.0	6.50	13.69	0.782	0.27	98.4	0.00	11.29	↓
1220	7.5	6.51	13.72	0.781	0.27	103.0	0.00	11.29	
1225	10.0	6.52	13.41	0.781	0.26	105.8	0.22	11.30	
1230	12.5	6.55	13.79	0.778	0.26	110.4	0.06	11.30	
1235	15.0	6.56	13.93	0.778	0.26	111.5	0.08	11.30	
1240	17.5	6.59	13.98	0.778	0.25	119.0	0.00	11.30	
1245	20.0	6.62	13.96	0.774	0.25	121.2	0.00	11.30	
		JO							

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 30 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 25-35

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	14.3	164.9	100.1	**90.5**
DO	0.05	0.80	0.05	**0.29**
PH	6.44	7.03	6.82	**6.75**
Cond.	0.551	0.851	0.731	**0.710**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0088-21A	WELL NO.	G0088
DATE/TIME COLLECTED	5-20-21 / 1445	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	37.40
Time Started	1400	Depth to Water (ft BTOC)	10.86
Time Completed	1445	Water Column Length	26.54
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	16.45
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	22.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KD
1405	2.5	6.72	13.07	.975	0.06	281.5	5.29	10.89	500
1410	5.0	6.93	12.81	.974	0.04	231.7	1.90	"	"
1415	7.5	6.83	12.91	.982	0.03	222.9	1.63	"	"
1420	10	6.81	12.79	.986	0.02	291.4	1.73	"	"
1425	12.5	6.83	12.99	.985	0.02	280.9	2.0	"	"
1430	15	6.83	12.90	.990	0.02	266.3	1.95	"	"
1435	17.50	6.84	12.80	.989	0.01	257.8	1.92	"	"
1440	20	6.84	13.00	.990	0.01	251.6	1.90	"	"
1445	22.5	6.83	12.75	.990	0.01	247.9	1.87	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS LA Motte Turb meter - Calib daily

Ferrous Iron = 0 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 32.5 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 25-35

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	47.5	177.2	73.0	**98.9**
DO	0.09	0.50	0.50	**0.34**
PH	6.80	7.17	7.17	**6.91**
Cond.	0.637	0.950	0.950	**0.773**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0089-21A	WELL NO.	G0089
DATE/TIME COLLECTED	5-20-21 / 1320	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	37.96
Time Started	1240	Depth to Water (ft BTOC)	11.82
Time Completed	1320	Water Column Length	26.14
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	16.2
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
1245	2.5	6.06	14.01	0.81	0.10	150.8	4.11	11.86	500
1250	5.0	6.13	14.17	0.81	0.06	146.0	3.60	11.87	"
1255	7.5	6.17	14.23	0.81	0.04	140.7	3.31	"	"
1300	10	6.19	13.82	0.81	0.02	135.1	3.41	"	"
1305	12.5	6.21	13.85	0.82	0.01	130.3	2.25	"	"
1310	15	6.23	14.22	0.82	0.01	129.1	2.15	"	"
1315	17.5	6.23	14.26	0.82	0.01	127.5	2.60	"	"
1320	20	6.23	14.54	0.82	0.01	127.3	2.43	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS LaMotte Turb meter - Daily Cal. KD

Ferrous Iron = 0.11 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 33 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 25 - 35

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-221.7	212.4	89.0	**62.9**
DO	0.07	1.39	0.35	**0.47**
PH	6.20	6.81	6.81	**6.49**
Cond.	0.676	0.916	0.915	**0.806**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0090-21A	WELL NO.	G0090
DATE/TIME COLLECTED	5-20-21 / 1210	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-20-21	Well Depth (ft BTOC)	37.88
Time Started	1130	Depth to Water (ft BTOC)	11.75
Time Completed	1210	Water Column Length	26.13
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	16.2
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min) ml/min
1135	2.5	6.44	16.15	0.86	1.48	178	25.2	11.77	500
1140	5	6.41	16.21	0.96	1.36	181.6	31.1	"	"
1145	7.5	6.44	16.06	0.86	1.29	181.7	29.6	"	"
1150	10	6.46	16.47	0.86	1.25	182.5	26.7	"	"
1155	12.5	6.46	17.19	0.85	1.24	183.9	24.1	"	"
1200	15	6.45	18.09	0.86	1.23	186.3	23.8	"	"
1205	17.5	6.44	18.41	0.85	1.22	189.2	23.2	"	"
1210	20	6.43	18.35	0.86	1.24	191.9	22.8	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS LA Motte Turb meter - calib daily

Ferrous Iron = 0.895 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 33 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 25-35

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	44.9	205.0	65.9	**97.8**
DO	0.13	5.11	0.53	**2.16**
PH	6.21	6.78	6.58	**6.52**
Cond.	0.532	0.821	0.730	**0.754**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0091-21A	WELL NO.	G0091
DATE/TIME COLLECTED	5-24-21 @ 1330	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	31.85
Time Started	1250	Depth to Water (ft BTOC)	11.52
Time Completed	1330	Water Column Length	20.33
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.60
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1255	2.5	6.84 ~~4.85~~ 78	13.29	1.222	4.85	71.7	0.00	11.53	0.5
1300	5.0	6.85	13.59	1.221	4.77	75.6	0.19	11.51	↓
1305	7.5	6.87	13.66	1.219	4.74	78.3	0.68	11.52	
1310	10.0	6.89	13.63	1.215	4.78	79.9	0.60	11.52	
1315	12.5	6.91	13.56	1.210	4.80	85.2	0.00	11.52	
1320	15.0	6.92	13.42	1.204	4.77	88.2	0.00	11.52	
1325	17.5	6.92	13.60	1.197	4.75	93.3	0.00	11.52	
1330	20.0	6.92	13.83	1.195	4.74	94.3	0.00	11.52	↓
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.02 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 25 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 20-30

Used a LaMotte meter for turbidity readings.

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	27.4	196.8	170.1	**126.4**
DO	2.11	6.99	5.53	**4.27**
PH	6.65	7.29	6.93	**6.93**
Cond.	0.973	1.362	1.170	**1.211**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0092-21A	WELL NO.	G0092
DATE/TIME COLLECTED	5-24-21 @ 1430	PERSONNEL	GC
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		JO
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	52.78
Time Started	1350	Depth to Water (ft BTOC)	11.70
Time Completed	1430	Water Column Length	41.08
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	25.47
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1355	2.5	7.16	13.43	1.097	0.25	19.7	0.95	11.67	0.5
1400	5.0	7.17	13.30	1.096	0.18	18.3	0.05	11.66	
1405	7.5	7.21	13.87	1.077	0.08	14.9	0.00	11.70	
1410	10.0	7.22	13.86	1.070	0.08	14.5	0.00	11.70	
1415	12.5	7.23	14.17	1.063	0.08	14.5	0.00	11.71	
1420	15.0	7.23	14.35	1.060	0.07	15.2	0.00	11.70	
1425	17.5	7.23	14.67	1.050	0.07	15.7	0.00	11.70	
1430	20.0	7.23	14.38	1.051	0.06	15.0	0.00	11.70	
		JO							

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.12 mg/L

Used a LaMotte meter for turbidity readings.

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 45 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 40-50

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	14.7	122.9	43.8	**72.8**
DO	0.04	0.74	0.04	**0.30**
PH	7.06	7.54	7.28	**7.26**
Cond.	0.940	1.297	1.297	**1.210**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0093-21A	WELL NO.	G0093
DATE/TIME COLLECTED	5-21-21 @ 1020	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	32.10
Time Started	0940	Depth to Water (ft BTOC)	9.18
Time Completed	1020	Water Column Length	22.92
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	14.21
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0945	2.5	6.54	11.70	0.795	0.08	-56.6	6.18	9.18	0.5
0950	5.0	6.54	11.74	0.794	0.10	-61.9	9.12	9.18	
0955	7.5	6.56	11.71	0.792	0.13	-80.4	15.13	9.18	
1000	10.0	6.62	11.74	0.790	0.13	-96.0	2.08	9.19	
1005	12.5	6.64	11.74	0.798	0.21	-103.7	1.90	9.18	
1010	15.0	6.64	11.73	0.795	0.24	-109.6	0.87	9.18	
1015	17.5	6.63	11.79	0.791	0.25	-111.9	0.99	9.19	
1020	20.0	6.60	11.83	0.800	0.22	-115.0	2.02	9.19	
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 2.13 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 25 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-65.9	146.7	-38.0	**26.1**
DO	0.09	1.30	0.38	**0.47**
PH	5.98	6.59	6.46	**6.33**
Cond.	0.404	1.060	1.060	**0.699**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0094-21A	WELL NO.	G0094
DATE/TIME COLLECTED	5-25-21/945	PERSONNEL	ME, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	27.50
Time Started	0905	Depth to Water (ft BTOC)	12.59
Time Completed	0945	Water Column Length	14.91
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.24
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KD
910	2.5	6.19	11.24	1.09	0.07	-1.6	5.51	12.92	500
915	5.0	5.99	11.32	1.08	0.04	-20.8	4.61	"	"
920	7.5	6.00	11.33	1.09	0.03	-36.4	3.37	"	"
925	10	6.04	11.41	1.08	0.03	-46.9	3.19	"	"
930	12.5	6.10	11.25	1.08	0.02	-55.7	3.06	"	"
935	15	6.12	11.53	1.08	0.02	-59.1	2.96	"	"
940	17.5	6.13	11.37	1.07	0.02	-60.9	2.72	"	"
945	20	6.13	11.62	1.08	0.02	-62.6	2.60	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 4.98 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 22.5 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-48.7	27.7	-28.0	**-16.6**
DO	0.16	0.64	0.64	**0.48**
PH	5.92	6.29	6.04	**6.04**
Cond.	0.359	0.791	0.791	**0.601**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: CHAAP | PROJECT NO.: 60565355

SAMPLE NO.: G0095-21A | WELL NO.: G0095

DATE/TIME COLLECTED: 5-23-21 / 1435 | PERSONNEL: RE, KM

SAMPLE METHOD: PRO-ACTIVE SS MONSOON

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.09
Time Started	1355	Depth to Water (ft BTOC)	14.28
Time Completed	1435	Water Column Length	12.81
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	7.94
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
1400	2.5	6.76	12.59	2.27	0.10	-144.8	7.42	14.35	500
1405	5.0	6.59	12.75	2.25	0.06	-144.7	5.66	"	"
1410	7.5	6.63	12.65	2.26	0.06	-150.4	6.38	"	"
1415	10	6.64	12.67	2.26	0.05	-155.8	6.37	"	"
1420	12.5	6.69	12.81	2.26	0.05	-157.6	5.92	"	"
1425	15	6.72	12.69	2.27	0.05	-160.1	5.60	"	"
1430	17.5	6.73	12.67	2.26	0.05	-161.2	4.83	"	"
1435	20	6.73	12.68	2.26	0.05	-162.5	4.50	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.2 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 22 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-118.0	-66.6	-118.0	**-96.3**
DO	0.48	1.28	0.48	**0.68**
PH	6.34	6.76	6.76	**6.49**
Cond.	0.762	1.800	1.800	**1.278**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0096-21A	WELL NO.	G0096
DATE/TIME COLLECTED	5-25-21 / 835	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	**YES** NO	DUPLICATE SAMPLE NO.	G0296-21A
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	27.93
Time Started	755	Depth to Water (ft BTOC)	14.71
Time Completed	835	Water Column Length	13.22
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	8.19
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
800	2.5	6.22	11.87	1.16	0.07	-139.7	5.25	14.77	500
805	5.0	6.10	11.84	1.20	0.05	-133.6	4.07	14.78	"
810	7.5	6.16	11.83	1.22	0.04	-134.9	3.02	"	"
815	10	6.24	11.91	1.22	0.03	-138.0	2.96	"	"
820	12.5	6.27	11.93	1.26	0.03	-138.4	2.36	"	"
825	15	6.27	11.94	1.21	0.02	-139.1	2.63	"	"
830	17.5	6.29	11.94	1.24	0.02	-138.3	2.01	"	"
835	20	6.29	11.83	1.23	0.02	-138.6	2.10	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb Meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.09 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-43.9	133.1	65.0	**30.3**
DO	0.32	0.61	0.61	**0.50**
PH	6.40	7.04	6.72	**6.62**
Cond.	0.483	1.040	1.040	**0.697**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0097-21A	WELL NO.	G0097
DATE/TIME COLLECTED	5-23-21 @1300	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.83
Time Started	1220	Depth to Water (ft BTOC)	12.54
Time Completed	1300	Water Column Length	15.29
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.48
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1225	2.5	6.07	13.05	1.450	0.26	-168.7	5.99	12.76	0.5
1230	5.0	6.07	13.59	1.445	0.23	-170.8	5.82	12.76	↓
1235	7.5	6.10	13.28	1.442	0.19	-177.6	5.77	12.76	
1240	10.0	6.12	13.50	1.441	0.15	-179.1	5.71	12.76	
1245	12.5	6.16	13.79	1.431	0.07	-188.5	5.64	12.76	
1250	15.0	6.20	13.39	1.432	0.06	-191.1	5.68	12.76	
1255	17.5	6.23	13.42	1.429	0.05	-196.4	5.66	12.76	
1300	20.0	6.26	13.32	1.425	0.05	-196.8	5.82	12.76	
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 9.06 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-129.0	172.8	-129.0	**-23.9**
DO	0.30	2.85	0.69	**0.94**
PH	5.69	6.82	6.82	**6.09**
Cond.	0.903	2.180	2.180	**1.357**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0098-21A	WELL NO.	G0098
DATE/TIME COLLECTED	5-23-21 @ 1115	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.85
Time Started	1035	Depth to Water (ft BTOC)	12.33
Time Completed	1115	Water Column Length	15.52
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.62
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1040	2.5	6.13	14.70	0.961	0.06	-178.0	0.82	12.43	0.5
1045	5.0	6.16	15.04	0.943	0.04	-192.1	0.71	12.43	
1050	7.5	6.24	14.63	0.953	0.03	-197.2	0.97	12.40	
1055	10.0	6.17	15.89	1.111	0.05	-189.9	1.19	12.40	
1100	12.5	6.09	15.98	1.104	0.03	-169.3	1.06	12.40	
1105	15.0	6.12	15.24	1.092	0.04	-171.2	1.07	12.48	
1110	17.5	6.17	15.84	1.073	0.07	-175.3	~~0.35~~ 1.35	12.40	
1115	20.0	6.18	15.55	1.057	0.08	-175.3	0.99	12.40	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 8.88 mg/L JO

Multi-Parameter Probe Unit # SN ~~669704~~ 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-123.0	92.3	-123.0	**-32.9**
DO	0.17	0.62	0.47	**0.44**
PH	5.64	6.69	6.69	**6.18**
Cond.	0.495	1.030	0.913	**0.747**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0099-21A	WELL NO.	G0099
DATE/TIME COLLECTED	5-23-21 @ 0840	PERSONNEL	GC
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		JO
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.40
Time Started	0800	Depth to Water (ft BTOC)	11.96
Time Completed	0840	Water Column Length	15.44
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.57
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0805	2.5	6.05	12.34	0.777	0.13	195.7	14.27	12.32	0.5
0810	5.0	6.05	12.11	0.776	0.11	140.2	13.59	12.35	
0815	7.5	6.08	13.94	0.784	0.10	87.4	13.71	12.28	
0820	10.0	6.16	13.78	0.783	0.08	75.2	6.23	12.17	
0825	12.5	6.26	14.12	0.780	0.08	63.0	2.17	12.18	
0830	15.0	6.28	14.05	0.772	0.07	62.0	0.93	12.15	
0835	17.5	6.32	14.18	0.771	0.07	57.4	0.32	12.15	
0840	20.0	6.34	14.11	0.767	0.06	49.6	0.00	12.15	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 2.34 mg/L JO

Used a LaMotte ~~turb~~ JO meter for

Multi-Parameter Probe Unit # ~~SN 661704~~ 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-98.6	254.4	-21A3	**13.3**
DO	0.37	3.06	0.55	**0.94**
PH	5.61	6.67	6.67	**6.18**
Cond.	0.465	0.762	0.762	**0.585**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0100-21A	WELL NO.	G0100
DATE/TIME COLLECTED	5-23-21 / 1315	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.85
Time Started	1235	Depth to Water (ft BTOC)	15.34
Time Completed	1315	Water Column Length	11.3
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	7.0
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
1240	2.5	6.64	12.91	2.00	0.05	-184.9	7.36	15.41	500
1245	5.0	6.47	13.01	1.99	0.06	-177.6	7.84	15.41	"
1250	7.5	6.46	14.43	1.99	0.04	-180.6	12.9	"	"
1255	10	6.44	12.58	1.98	0.08	-182.5	11.9	"	"
1300	12.5	6.51	12.44	2.01	0.01	-188.7	6.53	"	"
1305	15	6.52	12.65	2.00	0.01	-192.1	4.32	"	"
1310	17.5	6.53	12.69	1.99	0.01	-194.5	4.03	"	"
1315	20	6.54	12.84	2.00	0.01	-197.8	4.00	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb meter - DAILY	

GENERAL COMMENTS

Ferrous Iron = 1.66 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-89.0	-47.6	-76.0	**-72.5**
DO	0.33	1.52	0.36	**0.77**
PH	6.19	6.52	6.52	**6.38**
Cond.	1.013	1.910	1.910	**1.338**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0101-21A	WELL NO.	G0101
DATE/TIME COLLECTED	5-24-21 / 1210	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	27.90
Time Started	1130	Depth to Water (ft BTOC)	15.62
Time Completed	1210	Water Column Length	12.28
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	7.61
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20 KA

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml / min KD
1135	2.5	6.82	11.96	2.28	0.11	-51.3	1.75	15.67	500
1140	5.0	6.69	11.77	2.30	0.07	-47.5	2.86	15.66	"
1145	7.5	6.60	11.75	2.30	0.05	-45.6	1.77	15.66	"
1150	10	6.59	11.76	2.32	0.05	-48.1	1.69	"	"
1155	12.5	6.60	11.74	2.34	0.05	-50.4	1.49	"	"
1200	15	6.61	11.74	2.36	0.04	-53.2	2.79	"	"
1205	17.5	6.63	11.74	2.36	0.04	-56.3	1.54	"	"
1210	20	6.65	11.76	2.34	0.04	-58.6	1.31	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	La Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.67 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml / min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-63.1	29.7	25.0	**0.6**
DO	0.25	2.03	0.48	**0.79**
PH	6.42	6.79	6.75	**6.59**
Cond.	0.096	2.590	2.590	**1.609**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0102-21A	WELL NO.	G0102
DATE/TIME COLLECTED	5-21-21 / 1420	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	28.19
Time Started	1340	Depth to Water (ft BTOC)	9.65
Time Completed	1420	Water Column Length	19.54
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.49
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20 KD

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KD
1345	2.5	6.98	13.13	2.52	0.05	-334.2	3.42	9.67	500
1350	5.0	6.78	13.22	2.53	0.03	-329.7	3.01	"	"
1355	7.5	6.74	13.24	2.52	0.02	-328.1	3.09	"	"
1400	10	6.71	13.26	2.52	0.01	-327.9	2.44	"	"
1405	12.5	6.70	13.17	2.53	0.01	-327.6	2.25	"	"
1410	15	6.69	13.19	2.53	0.01	-329.3	0.14	"	"
1415	17.5	6.70	13.31	2.53	0.01	-332.5	2.49	"	"
1420	20	6.70	13.39	2.53	0.01	-335.7	2.32	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb. meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.86 mg/L

~~Strong sulfur odor~~ NR

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml / min

Well Diameter = 2"

Screen Interval = 15-25

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-279.2	10.9	-279.2	**-84.4**
DO	0.03	0.62	0.03	**0.37**
PH	6.68	7.00	6.68	**6.83**
Cond.	2.271	2.740	2.271	**2.424**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0103-21A	WELL NO.	G0103
DATE/TIME COLLECTED	5-21-21 / 1315	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	28.22
Time Started	1235	Depth to Water (ft BTOC)	9.81
Time Completed	1315	Water Column Length	18.41
PID Measurements		Well Casing Volume (per ft)	.62
Background	ND	Volume of Water in Well (L)	11.41
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
1240	2.5	6.78	12.37	2.58	0.15	-336.1	6.70	10.46	500
1245	5.0	6.69	12.44	2.58	0.11	-347.9	4.19	"	"
1250	7.5	6.68	12.47	2.57	0.09	-359.3	3.86	"	"
1255	10	6.69	12.57	2.56	0.08	-367.8	5.45	"	"
1300	12.5	6.71	12.57	2.57	0.07	-374.0	2.18	"	"
1305	15	6.73	12.58	2.56	0.06	-377.2	3.0	"	"
1310	17.5	6.74	12.51	2.56	0.06	-378.6	2.79	"	"
1315	20	6.75	12.58	2.56	0.05	-379.3	2.60	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter	Daily

GENERAL COMMENTS

Ferrous Iron = 0.56 mg/L — Strong sulfur

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml / min

Well Diameter = 2"

Screen Interval = 14-24

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-372.0	-265.3	-372.0	**-298.4**
DO	0.33	0.97	0.33	**0.49**
PH	5.79	6.82	6.82	**6.16**
Cond.	1.528	2.470	2.470	**2.119**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0104-21A	WELL NO.	G0104
DATE/TIME COLLECTED	5-21-21 / 1215	PERSONNEL	ME, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	28.04
Time Started	1130	Depth to Water (ft BTOC)	9.11
Time Completed	1215	Water Column Length	18.93
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.73
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min) ml/min KD
1135	2.5	6.93	11.89	2.21	0.08	-106.0	0.98	9.15	500
1140	5.0	6.83	11.89	2.20	0.04	-113.3	0.83	"	"
1145	7.5	6.83	11.91	2.21	0.02	-122.3	0.72	"	"
1150	10	6.86	11.84	2.22	0.01	-129.5	0.66	"	"
1155	12.5	6.88	11.92	2.22	0.01	-135.6	0.67	"	"
1205	15.0	6.89	11.88	2.22	0.01	-140.3	0.63	"	"
1210	17.5	6.90	11.92	2.22	0.01	-144.0	0.73	"	"
1215	20	6.90	11.94	2.22	0.01	-146.4	0.82	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	La Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 2.37 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-351.3	-140.0	-140.0	**-244.9**
DO	0.29	1.23	0.40	**0.57**
PH	6.55	6.96	6.96	**6.81**
Cond.	1.725	2.590	2.590	**2.310**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0105-21A	WELL NO.	G0105
DATE/TIME COLLECTED	5-21-21 / ~~1025~~ 1105	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	28.18
Time Started	~~May 25~~ 1025	Depth to Water (ft BTOC)	9.20
Time Completed	1105	Water Column Length	18.98
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.77
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ KD mL/min
1030	2.5	6.96	12.21	2.47	0.07	-102.4	2.81	9.23	500
1035	5.0	6.86	12.29	2.46	0.04	-105.8	2.01	〃	〃
1040	7.5	6.87	12.30	2.46	0.03	-111.4	2.81	〃	〃
1045	10	6.90	12.33	2.45	0.02	-116.6	1.28	〃	〃
1050	12.5	6.93	12.35	2.46	0.02	-120.8	1.11	〃	〃
1055	15	6.95	12.29	2.45	0.01	-123.9	1.12	〃	〃
1100	17.5	6.96	12.31	2.45	0.01	-126.6	1.01	〃	〃
1105	20	6.96	12.27	2.45	0.01	-128.7	1.13	〃	〃

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turbidimeter	Daily Calib

GENERAL COMMENTS

Ferrous Iron = 1.5 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-358.7	-79.1	-271.0	**-226.8**
DO	0.28	1.16	0.85	**0.59**
PH	6.65	7.46	7.46	**7.01**
Cond.	2.184	2.673	2.300	**2.433**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0106-21A	WELL NO.	G0106 ~~G0102~~
DATE/TIME COLLECTED	5-21-21 / 840	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	28.02
Time Started	800	Depth to Water (ft BTOC)	9.71
Time Completed	840	Water Column Length	18.31
PID Measurements		Well Casing Volume (per ft)	.62
Background	ND	Volume of Water in Well (L)	11.35
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
805	2.5	6.75	12.79	2.44	0.10	59.5	18.7	9.76	500
810	5.0	6.79	12.98	2.46	0.07	29.0	7.74	9.97	"
815	7.5	6.84	12.97	2.46	0.06	12.3	4.35	"	"
820	10	6.87	12.99	2.46	0.05	1.6	3.15	"	"
825	12.5	6.88	13.03	2.46	0.05	-5.3	2.14	"	"
830	15	6.89	13.01	2.46	0.05	-10.3	1.77	"	"
835	17.5	6.90	13.05	2.46	0.05	-13.3	1.21	"	"
840	20	6.90	13.08	2.46	0.04	-17.3	1.34	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

LA Motte Turb meter - Daily

GENERAL COMMENTS

Ferrous Iron = 0.63 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml /min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-95.0	30.6	-95.0	**-11.4**
DO	0.37	1.06	0.71	**0.72**
PH	6.68	7.36	7.36	**7.01**
Cond.	1.999	2.489	2.110	**2.235**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0107-21A	WELL NO.	G0107
DATE/TIME COLLECTED	5-21-21/1000	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft BTOC)	28.26
Time Started	920	Depth to Water (ft BTOC)	9.09
Time Completed	1000	Water Column Length	19.17
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.88
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
925	2.5	6.87	12.11	2.51	0.06	-60.4	11.1	9.11	500
930	5.0	6.85	12.19	2.49	0.03	-71.4	4.25	9.12	"
935	7.5	6.88	12.19	2.48	0.02	-79.5	2.54	9.13	"
940	10	6.91	12.23	2.48	0.02	-86.3	1.98	"	"
945	12.5	6.93	12.26	2.46	0.01	-90.6	2.13	"	"
950	15	6.94	12.18	2.48	0.01	-94.3	1.78	"	"
955	17.5	6.95	12.23	2.47	0.01	-96.9	1.57	"	"
1000	20	6.95	12.15	2.48	0.01	-99.0	1.83	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb meter	Daily

GENERAL COMMENTS

Ferrous Iron = 2.36 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-202.0	-22.6	-202.0	**-99.7**
DO	0.39	1.13	0.71	**0.68**
PH	6.54	7.32	7.32	**6.92**
Cond.	2.081	2.540	2.260	**2.393**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0108-21A	WELL NO.	G0108
DATE/TIME COLLECTED	5-22-21 @ 1400	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	27.62
Time Started	1320	Depth to Water (ft BTOC)	12.27
Time Completed	1400	Water Column Length	15.35
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.52
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
					0.25		11.26		
1325	2.5	6.35	13.66	1.484	0.02 JO	-97.2	JO = 97.2	12.33	0.5
1330	5.0	6.36	13.25	1.335	0.20	-99.0	8.76	12.34	
1335	7.5	6.38	13.33	1.236	0.20	-100.5	5.27	12.35	
1340	10.0	6.38	13.24	1.230	0.20	-102.2	4.40	12.35	
1345	12.5	6.41	13.45	1.223	0.22	-103.3	3.90	12.35	
1350	15.0	6.42	13.38	1.202	0.25	-104.4	3.77	12.35	
1355	17.5	6.55	13.93	1.177	0.23	-113.4	3.73	12.35	
1400	20.0	6.56	14.10	1.167	0.25	-114.0	3.70	12.35	↓
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 10.0 mg/L

Used a La Motte Turbidity meter for turbidity readings

Multi-Parameter Probe Unit # SN669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-102.5	-44.7	-97.0	**-71.1**
DO	0.21	1.06	0.34	**0.68**
PH	5.75	6.30	6.18	**6.07**
Cond.	0.631	1.078	0.849	**0.861**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0109-21A	WELL NO.	G0109
DATE/TIME COLLECTED	5-23-21 @ 1000	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.65
Time Started	0920	Depth to Water (ft BTOC)	10.05
Time Completed	1000	Water Column Length	17.60
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	10.91
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0925	2.5	6.66	14.79	0.777	0.23	-47.3	8.32	10.03	0.5
0930	5.0	6.73	16.67	0.787	0.23	-64.8	7.65	10.04	
0935	7.5	6.86	14.25	~~0.730~~ 0.768	0.19	-80.3	8.37	10.05	
0940	10.0	6.82	14.61	0.763	0.13	-73.6	5.81	10.05	
0945	12.5	6.85	14.58	0.757	~~0.10~~ 0.12	-91.7	4.98	10.05	
0950	15.0	6.86	14.91	0.746	0.10	-96.7	3.65	10.05	
0955	17.5	6.86	JO ~~15~~ 14.79	0.735	0.10	-106.8	4.07	10.05	
1000	20.0	6.86	14.80	0.735	0.07	-112.9	3.05	10.05	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 6.30 mg/L

Multi-Parameter Probe Unit # SN ~~664204~~ 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-118.0	-1.2	-118.0	**-52.1**
DO	0.36	1.62	1.62	**0.85**
PH	6.24	7.31	7.31	**6.51**
Cond.	0.456	0.742	0.742	**0.616**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: CHAAP | PROJECT NO.: 60565355

SAMPLE NO.: G0110-21A | WELL NO.: G0110

DATE/TIME COLLECTED: 5-22-21 @ 1210 | PERSONNEL: JO, GC

SAMPLE METHOD: PRO-ACTIVE SS MONSOON

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	28.28
Time Started	1130	Depth to Water (ft BTOC)	11.32
Time Completed	1210	Water Column Length	16.96
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	10.52
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1135	2.5	6.30	14.79	1.392	0.24	-61.7	4.95	11.41	0.5
1140	5.0	6.25	14.80	1.401	0.21	-67.3	4.70	11.42	
1145	7.5	6.26	14.23	1.413	0.20	-74.9	3.63	11.44	
1150	10.0	6.30	14.68	1.418	0.23	-82.4	1.67	11.45	
1155	12.5	6.30	14.75	1.414	0.23	-84.3	1.20	11.45	
1200	15.0	6.30	14.28	1.416	0.25	-87.5	2.17	11.45	
1205	17.5	6.30	14.24	1.414	0.26	-88.0	1.07	11.45	
1210	20.0	6.30	14.16	1.405	0.26	-89.5	0.96	11.45	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 8.64 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

Used a LaMotte turbidity meter for turbidity readings

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-94.0	13.8	-94.0	**-45.9**
DO	0.29	1.50	0.32	**0.61**
PH	6.01	6.28	6.26	**6.17**
Cond.	0.745	1.330	1.330	**0.999**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0111-21A	WELL NO.	G0111
DATE/TIME COLLECTED	5-24-21/1320	PERSONNEL	ME, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	**YES** NO	DUPLICATE SAMPLE NO.	G0311-21A @ 800
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	27.54
Time Started	1235	Depth to Water (ft BTOC)	16.98
Time Completed	1320	Water Column Length	10.56
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	6.54
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min) ml/min
1240	2.5	6.64	12.10	2.06	0.10	38.2	7.35	17.05	500
1245	5.0	6.50	12.09	2.06	0.08	39.3	5.02	11	11
1250	7.5	6.41	12.06	2.07	0.06	26.9	4.01	11	11
1255	10	6.37	12.14	2.09	0.05	-10.2	3.54	11	11
1300	12.5	6.37	12.13	2.10	0.05	-34.1	3.99	11	11
1305	15	6.37	12.10	2.12	0.04	-49.7	3.42	11	11
1310	17.5	6.38	12.13	2.08	0.04	-57.3	3.10	11	11
1315	20	6.37	12.11	2.11	0.04	-61.9	3.10	11	11
1320	22.5	6.38	12.11	2.13	0.04	-63.8	3.44	11	11

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.79 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 22.5 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 15-25

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-198.4	14.0	-198.4	**-76.5**
DO	0.15	0.86	0.22	**0.48**
PH	6.37	7.06	6.69	**6.66**
Cond.	1.239	1.762	1.762	**1.522**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0112-21A	WELL NO.	G0112
DATE/TIME COLLECTED	5-23-21 @ 1545	PERSONNEL	RH JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	27.94
Time Started	1505	Depth to Water (ft BTOC)	10.48
Time Completed	1545	Water Column Length	17.46
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	10.83
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1510	2.5	6.55	14.16	0.789	0.06	-96.9	0.95	10.47	0.5
1515	5.0	6.54	14.31	0.792	0.04	-93.8	0.52	10.49	
1520	7.5	6.56	13.87	0.796	0.03	-96.8	0.28	10.52	
1525	10.0	6.58	14.05	0.790	0.02	-101.5	0.07	10.51	
1530	12.5	6.61	13.82	0.791	0.03	-105.3	0.00	10.51	
1535	15.0	6.62	13.61	0.790	0.03	-107.5	0.00	10.51	
1540	17.5	6.64	13.51	0.781	0.02	-110.3	0.00	10.51	
1545	20.0	6.64	13.51	0.778	0.02	-111.1	0.00	10.51	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 1.04 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-46.0	191.7	-46.0	**34.0**
DO	0.36	0.86	0.39	**0.59**
PH	6.23	6.59	6.59	**6.38**
Cond.	0.462	0.735	0.735	**0.598**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0113-21A	WELL NO.	G0113
DATE/TIME COLLECTED	~~5-3~~ 5/23/21 @ 1435	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	28.01
Time Started	1355	Depth to Water (ft BTOC)	12.38
Time Completed	1435	Water Column Length	15.63
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.69
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1400	2.5	6.28	15.70	0.725	0.10	-172.6	2.35	12.35	0.5
1405	5.0	6.29	15.45	0.895	0.07	-186.1	0.64	12.35	↓
1410	7.5	6.29	15.51	0.890	0.07	-188.2	0.62	12.37	
1415	10.0	6.30	15.58	0.874	0.06	-195.8	0.82	12.37	
1420	12.5	6.33	15.17	0.858	0.05	-200.3	0.76	12.37	
1425	15.0	6.34	15.24	0.840	0.04	-203.4	0.53	12.37	
1430	17.5	6.36	15.64	0.829	0.04	-208.5	0.37	12.37	
1435	20.0	6.40	15.72	0.820	0.03	-212.2	0.47	12.37	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 5.66 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-98.9	128.2	-21A0	**-16.6**
DO	0.18	1.69	0.35	**0.75**
PH	4.15	6.46	6.12	**5.85**
Cond.	0.593	1.984	0.677	**1.009**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0114-21A	WELL NO.	G0114
DATE/TIME COLLECTED	5-22-21 @ 1520	PERSONNEL	GC
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		JO

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	27.02
Time Started	1440	Depth to Water (ft BTOC)	10.95
Time Completed	1520	Water Column Length	16.07
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	9.96
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1445	2.5	6.58	12.75	0.726	0.26	-107.5	11.70	10.97	0.5
1450	5.0	6.38	12.76	0.721	0.29	-93.2	9.33	10.97	↓
1455	7.5	6.37	12.75	0.717	0.33	-92.3	5.13	10.97	
1500	10.0	6.44	13.63	0.709	0.32	-94.9	8.32	10.97	
1505	12.5	6.46	14.52	0.705	0.31	-96.6	18.44	10.97	
1510	15.0	6.45	14.74	0.704	0.31	-97.1	15.35	10.97	
1515	17.5	6.39	14.53	0.700	0.30	-94.8	16.87	10.97	
1520	20.0	6.34	14.44	0.701	0.32	-94.0	17.72	10.97	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 6.12 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

Used a LaMotte turbidity meter for turbidity readings.

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-116.4	110.9	-96.0	**-42.0**
DO	0.23	1.53	0.47	**0.64**
PH	6.12	6.63	6.63	**6.34**
Cond.	0.523	0.779	0.666	**0.642**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0115-21A	WELL NO.	G0115
DATE/TIME COLLECTED	5-24-21 / 836	PERSONNEL	RE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	32.25
Time Started	750	Depth to Water (ft BTOC)	13.46
Time Completed	830	Water Column Length	18.79
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	23.9
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
755	2.5	6.53	11.78	2.31	0.09	-128.1	4.3	13.62	500
800	5.0	6.44	11.79	2.30	0.07	-126.0	4.57	"	"
805	7.5	6.45	11.83	2.30	0.06	-128.3	3.65	"	"
810	10	6.51	11.77	2.30	0.05	-132.4	3.43	"	"
815	12.5	6.54	11.84	2.29	0.05	-134.6	3.42	"	"
820	15	6.56	11.86	2.28	0.05	-135.8	3.84	"	"
825	17.5	6.57	11.90	2.28	0.04	-136.3	3.19	"	"
830	20	6.57	11.90	2.28	0.05	-135.0	3.74	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA motte Turb meter -	DAILY

GENERAL COMMENTS

Ferrous Iron = 1.67 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27 ft

Pump Rate = 500 ml /min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-138.0	-72.1	-138.0	**-93.6**
DO	0.22	3.29	0.63	**0.95**
PH	6.19	6.80	6.80	**6.43**
Cond.	1.351	1.959	1.790	**1.607**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0116-21A	WELL NO.	G0116
DATE/TIME COLLECTED	5-22-21 / 1605	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	33.20
Time Started	1510	Depth to Water (ft BTOC)	10.71
Time Completed	1605	Water Column Length	22.49
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	13.94
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	30

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
1515	2.5	6.58	17.38	2.35	0.12	-155.0	3.25	10.88	500
1520	5.0	6.52	17.34	2.34	0.11	-190.6	3.09	10.88	"
1525	7.5	6.54	17.27	2.34	0.08	-222.2	4.14	"	"
1530	10	6.55	18.01	2.33	0.05	-233.3	2.61	"	"
1535	12.5	6.55	18.44	2.34	0.03	-241.1	3.27	"	"
1540	15	6.55	18.54	2.35	0.03	-256.5	3.15	"	"
1545	17.5	6.53	18.68	2.36	0.03	-272.3	3.58	"	"
1550	20	6.54	19.69	2.35	0.03	-279.2	3.71	"	"
1555	22.5	6.57	18.73	2.38	0.02	-287.7	3.70	"	"
1600	25.0	6.62	18.64	2.38	0.03	-292.1	3.36	"	"
1605	27.5	6.57	18.42	2.38	0.03	-295.1	4.37	"	"
1610	~~30~~ m		MC						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 3.02 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 28 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-296.0	24.6	-296.0	**-96.2**
DO	0.23	3.21	0.44	**1.96**
PH	4.80	6.96	6.96	**5.88**
Cond.	1.610	2.400	1.830	**1.876**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0117-21A	WELL NO.	G0117
DATE/TIME COLLECTED	5-22-21 / 1440	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	32.05
Time Started	1400	Depth to Water (ft BTOC)	11.80
Time Completed	1440	Water Column Length	20.25
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.55
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KD
1405	2.5	6.45	14.62	2.20	0.33	-90.4	4.51	11.82	500
1410	5.0	6.48	14.42	2.21	0.19	-96.5	3.61	11	11
1415	7.5	6.51	14.38	2.20	0.21	-90.7	3.87	11	11
1420	10	6.54	14.72	2.20	0.17	-94.7	3.75	11	11
1425	12.5	6.56	14.52	2.21	0.13	-97.9	3.59	11	11
1430	15	6.57	14.72	2.21	0.13	-98.9	3.83	11	11
1435	17.5	6.56	15.02	2.21	0.12	-104.7	3.15	11	11
1440	20	6.57	14.78	2.22	0.13	-105.2	3.05	11	11

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turbo meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 2.56 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 20-30

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-168.0	-91.2	-168.0	**-114.0**
DO	0.47	1.40	0.60	**0.94**
PH	6.29	6.83	6.83	**6.47**
Cond.	1.605	2.328	2.160	**1.951**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0118-21A	WELL NO.	G0118
DATE/TIME COLLECTED	5-22-21 @ 1050	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft BTOC)	27.62
Time Started	1010	Depth to Water (ft BTOC)	10.54
Time Completed	1050	Water Column Length	17.08
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	10.59
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1015	2.5	6.35	12.28	1.526	0.22	-97.3	2.11	11.01	0.5
1020	5.0	6.09	13.82	1.537	0.20	-89.8	0.07	11.00	
1025	7.5	6.09	13.92	1.538	0.24	-89.6	1.20	11.00	
1030	10.0	6.09	14.04	1.546	0.26	-91.2	0.41	10.95	
1035	12.5	6.10	14.10	1.554	0.26	-91.2	0.47	10.92	
1040	15.0	6.11	13.88	1.547	0.28	-91.3	0.49	10.89	
1045	17.5	6.12	13.94	1.553	0.28	-91.6	0.35	10.86	
1050	20.0	6.13	13.97	1.557	0.31	-93.2	0.47	10.85	

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 10.4 mg/L

Multi-Parameter Probe Unit # SN669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 15-25

Used a La Motte turbidity meter for turbidity readings

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-104.0	-11.0	-104.0	**-66.5**
DO	0.38	1.97	0.38	**0.89**
PH	5.77	6.43	6.43	**6.19**
Cond.	1.186	2.015	1.930	**1.512**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: CHAAP | PROJECT NO.: 60565355

SAMPLE NO.: G0119-21A | WELL NO.: G0119

DATE/TIME COLLECTED: 5-23-21 / 1535 | PERSONNEL: AE, KM

SAMPLE METHOD: PRO-ACTIVE SS MONSOON

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	32.45
Time Started	1455	Depth to Water (ft BTOC)	13.76
Time Completed	1535	Water Column Length	18.69
PID Measurements		Well Casing Volume (per ft)	0.62
Background	NA	Volume of Water in Well (L)	11.58
Breathing Zone	NA	Casing Volumes to Purge	NA
Well Head	NA	Minimum to Purge (L)	20
Purge Water	NA	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
1500	2.5	7.13	13.79	1.98	0.09	-173.4	5.06	13.80	500
1505	5.0	6.97	13.69	1.97	0.06	-168.1	4.19	"	"
1510	7.5	6.95	13.74	1.97	0.05	-180.1	4.75	"	"
1515	10	6.96	13.40	1.99	0.05	-184.7	4.22	"	"
1520	12.5	6.98	13.56	1.99	0.05	-188.0	4.23	"	"
1525	15	6.99	13.73	1.98	0.04	-188.9	4.18	"	"
1530	17.5	7.00	13.50	1.97	0.05	-194.1	4.56	"	"
1535	20	7.00	13.52	1.99	0.04	-195.0	4.28	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.62 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27 ft

Pump Rate = 500 ml /min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-253.8	-40.8	-148.0	**-118.1**
DO	0.29	1.67	0.53	**0.82**
PH	6.38	7.32	7.32	**6.79**
Cond.	1.557	1.920	1.920	**1.748**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0121-21A	WELL NO.	G0121
DATE/TIME COLLECTED	5-24-21 / 1105	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	32.35
Time Started	1005	Depth to Water (ft BTOC)	13.61
Time Completed	1105	Water Column Length	18.74
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.62
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	30

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min) ml/min
1010	2.5	5.07	12.05	3.05	0.11	-37.5	20.7	14.95	500
1015	5.0	4.98	12.16	3.05	0.10	-51.1	26.1	14.98	500
1020	7.5	4.98	12.12	2.94	0.09	-66.3	29.1	15.00	"
1025	10	5.03	12.13	2.86	0.09	-81.0	22.4	15.00	"
1030	12.5	5.09	12.21	2.78	0.08	-94.3	20.7	15.00	"
1035	15	5.17	12.17	2.68	0.08	-107.9	23.3	"	"
1040	17.5	5.25	12.25	2.61	0.08	-119.3	17.1	"	"
1045	20	5.34	12.24	2.54	0.08	-131.7	15.5	"	"
1050	22.5	5.38	12.36	2.48	0.07	-141.1	16.0	"	"
1055	25.0	5.49	12.39	2.43	0.07	-153.5	15.0	"	"
1100	27.5	5.53	12.38	2.37	0.07	-163.3	15.1	"	"
1105	30.0	5.59	12.36	2.33	0.08	-173.6	16.2	"	"
	~~32.5~~								

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 2.88 mg/L

Gold color water - strong odor

ORP ~~pH~~ & cond will not stabilize

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 20-30

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-127.9	-80.0	-127.9	**-101.9**
DO	0.04	1.24	0.04	**0.65**
PH	5.02	6.86	5.02	**6.22**
Cond.	1.446	3.539	3.539	**2.148**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0122-21A	WELL NO.	G0122
DATE/TIME COLLECTED	5-23-21 / 1105	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft BTOC)	32.81
Time Started	1025	Depth to Water (ft BTOC)	14.95
Time Completed	1105	Water Column Length	17.86
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.07
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min) KD ml/min
1030	2.5	6.74	13.10	2.28	0.08	-239.7	4.70	14.96	500
1035	5.0	6.66	13.14	2.33	0.06	-278.1	4.20	"	"
1040	7.5	6.67	13.14	2.37	0.04	-326.1	2.74	"	"
1045	10	6.68	13.21	2.41	0.03	-337.6	3.76	"	"
1050	12.5	6.67	13.02	2.44	0.03	-324.6	2.55	"	"
1055	15	6.69	13.16	2.44	0.02	-339.2	2.22	"	"
1100	17.5	6.69	13.26	2.44	0.02	-341.5	2.18	"	"
1105	20	6.69	13.10	2.44	0.02	-341.4	2.24	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

LA Motte Turb meter - Daily

GENERAL COMMENTS

Ferrous Iron = 2.79 mg/L

Strong Sulfer Odor

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 28 ft

Pump Rate = 500 ml / min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-266.4	-61.0	-266.4	**-163.7**
DO	0.06	0.30	0.06	**0.18**
PH	6.48	7.01	6.48	**6.75**
Cond.	2.339	2.340	2.339	**2.340**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	G0123-21A	WELL NO.	G0123
DATE/TIME COLLECTED	5-24-21/ 940	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	32.0
Time Started	900	Depth to Water (ft BTOC)	13~~7~~.60
Time Completed	940	Water Column Length	~~20.4~~ 18.4
PID Measurements		Well Casing Volume (per ft)	.62
Background	ND	Volume of Water in Well (L)	~~12.65~~ ~~23~~ 11.4
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KD
905	2.5	6.32	12.56	1.85	0.13	-99.4	3.06	13.65	500
910	5.0	6.29	12.53	1.88	0.08	-106.4	3.43	11	11
915	7.5	6.30	12.52	1.88	0.07	-111.0	3.54	11	11
920	10	6.34	12.53	1.88	0.06	-116.0	3.52	11	11
925	12.5	6.38	12.55	1.88	0.05	-120.0	2.27	11	11
930	15	6.39	12.54	1.88	0.06	-123.6	2.27	11	11
935	17.5	6.39	12.55	1.88	0.05	-125.8	2.42	11	11
940	20	6.40	12.57	1.88	0.05	-128.6	2.17	11	11

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 5.12 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 27 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 20-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-126.2	45.0	-126.2	**-40.6**
DO	0.03	0.31	0.03	**0.17**
PH	6.00	6.85	6.00	**6.43**
Cond.	1.673	1.860	1.673	**1.767**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ001-21A	WELL NO.	PZ001
DATE/TIME COLLECTED	5-24-21 @ 0955	PERSONNEL	GC JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES / **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES / **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	**YES** / NO	MS/MSD SAMPLE NO.	PZ001-21A MS/MSD

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	32.85
Time Started	0915	Depth to Water (ft BTOC)	13.98
Time Completed	0955	Water Column Length	18.87
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.70
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0920	2.5	7.22	13.26	2.784	0.48	-17.8	0.05	13.90	0.5
0925	5.0	7.22	13.29	2.779	0.48	-18.1	0.04	13.92	
0930	7.5	7.23	13.28	2.758	0.39	-19.8	0.00	13.93	
0935	10.0	7.24	13.32	2.713	0.29	-22.5	0.00	13.94	
0940	12.5	7.25	13.35	2.714	0.25	-23.0	0.00	13.91	
0945	15.0	7.25	13.31	2.704	0.22	-24.7	0.00	13.90	
0950	17.5	7.25	13.36	2.679	0.21	-24.6	0.00	13.90	
0955	20.0	7.26	13.38	2.676	0.20	-25.4	0.00	13.90	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.43 mg/L

Used a LaMotte meter for turbidity readings.

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 22 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-75.2	90.0	90.0	**23.7**
DO	0.31	3.86	3.86	**1.93**
PH	6.96	7.16	7.16	**7.08**
Cond.	2.282	2.939	2.510	**2.647**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ004-21A KD	WELL NO.	PZ004
DATE/TIME COLLECTED	5-28-21 @ 1145	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2S0_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	32.92
Time Started	1105	Depth to Water (ft BTOC)	12.03
Time Completed	1145	Water Column Length	20.89
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.95
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1110	2.5	7.06	13.05	2.111	1.86	26.6	2.91	12.04	0.5
1115	5.0	7.15	13.23	2,448	1.27	-5.6	2.60	12.04	
1120	7.5	7.17	13.02	2.523	1.06	-16.9	0.53	12.05	
1125	10.0	7.18	13.12	2.530	0.94	-16.6	0.89	12.06	
1130	12.5	7.19	13.08	2.540	0.82	-16.1	0.41	12.07	
1135	15.0	7.19	13.02	2.537	0.80	-16.3	0.33	12.08	
1140	17.5	7.19	13.06	2.534	0.77	-15.7	0.37	12.08	
1145	20.0	7.19	13.04	2.532	0.76	-15.1	0.39	12.08	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.19 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 21 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

Used a LaMotte meter for turbidity readings.

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-200.9	84.0	84.0	**-3.3**
DO	0.37	3.96	0.39	**1.81**
PH	6.60	7.18	6.60	**6.93**
Cond.	2.147	2.843	2.260	**2.480**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ005-21A	WELL NO.	PZ005
DATE/TIME COLLECTED	5-24-21 / 1605	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-24-21	Well Depth (ft BTOC)	33.30
Time Started	1525	Depth to Water (ft BTOC)	12.66
Time Completed	1605	Water Column Length	20.64
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.8
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min
1530	2.5	7.01	12.23	3.76	1.88	47.4	1.03	12 ft 13.66	500
1535	5.0	6.91	12.27	3.75	1.71	59.7	1.53	"	"
1540	7.5	6.92	12.41	3.76	1.71	62.2	1.02	"	"
1545	10	6.97	12.45	3.67	1.78	62.0	1.54	"	"
1550	12.5	7.00	12.36	3.66	1.64	62.9	0.60	"	"
1555	15	7.01	12.36	3.66	1.63	64.2	0.74	"	"
1600	17.5	7.02	12.25	3.66	1.69	66.0	0.47	"	"
1605	20	7.02	12.32	3.63	1.64	67.7	0.76	"	"
		NA							

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter	Daily

GENERAL COMMENTS

Ferrous Iron = 0.36 mg/L
Multi-Parameter Probe Unit # 1
Field Parameters Measured in Flow-Through Cell
Pump Placement Depth = 23.5 ft
Pump Rate = 500 ml /min
Well Diameter = 2"
Screen Interval = 10 - 30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-2.7	208.0	91.0	**65.9**
DO	0.25	4.83	4.83	**2.16**
PH	6.78	7.20	7.20	**6.96**
Cond.	1.519	3.250	3.250	**2.515**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ007-21A	WELL NO.	PZ007
DATE/TIME COLLECTED	5-25-21 / 1325	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	**YES**	NO	MS/MSD SAMPLE NO.	PZ007-21A MS/MSD

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft BTOC)	32.82
Time Started	1245	Depth to Water (ft BTOC)	10.77
Time Completed	1325	Water Column Length	22.05
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	13.67
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ KD ml/min
1250	2.5	7.14	12.92	1.38	3.96	63.0	3.32	10.80	500
1255	5.0	6.94	12.94	1.64	3.85	2.5	1.82	"	"
1300	7.5	6.99	12.78	1.64	3.81	-7.6	1.06	"	"
1305	10	7.10	12.80	1.64	3.75	-14.4	1.00	"	"
1310	12.5	7.12	12.71	1.61	3.77	-14.8	1.06	"	"
1315	15	7.13	12.67	1.63	3.73	-15.3	0.97	"	"
1320	17.5	7.14	12.69	1.62	3.76	-15.9	0.96	"	"
1325	20	7.15	13.09	1.64	3.73	-16.5	0.98	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb meter	

GENERAL COMMENTS

Ferrous Iron = 0.45 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-23.2	180.5	70.0	**40.4**
DO	1.31	4.56	4.56	**2.68**
PH	6.83	7.19	7.03	**7.05**
Cond.	1.539	2.419	1.940	**1.948**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ009-21A	WELL NO.	PZ009
DATE/TIME COLLECTED	5-22-~~22~~ 21 / 905	PERSONNEL	ME, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft. BTOC)	32.90
Time Started	800	Depth to Water (ft. BTOC)	12.79
Time Completed	905	Water Column Length	20.11
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.46
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	32.5

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
							14.0 AVG		KA ml/min
805	2.5	6.81	15.83	2.22	0.95	94.3	21.5	12.79	500
810	5.0	6.84	14.49	2.19	1.08	52.1	20.0	"	"
815	7.5	6.89	14.49	2.19	0.95	44.3	~~16.5~~ 16.0	"	"
820	10	6.91	14.57	2.16	0.94	45.07	16.9	"	"
825	12.5	6.93	14.59	2.15	0.94	46.4	15.0	"	"
830	15	6.93	14.58	2.14	0.94	57.5	12.3	"	"
835	17.5	6.94	14.51	2.13	0.94	65.3	7.92	"	"
840	20	6.94	14.51	2.14	0.96	73.8	4.99	"	"
845	22.5	6.94	14.53	2.14	0.98	87.8	5.13	"	"
850	25	6.95	14.65	2.13	0.99	102.5	4.54	"	"
855	27.5	6.98	14.85	2.14	1.01	111.2	4.00	"	"
900	30	7.02	14.79	2.14	1.05	118.2	4.64	"	"
905	32.5	7.05	15.13	2.14	0.99	123.4	3.03	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turbidimeter - Daily	

GENERAL COMMENTS

Ferrous Iron = 0.54 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml / min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-7.5	130.9	98.0	**47.8**
DO	0.17	3.33	0.17	**1.56**
PH	5.84	7.14	5.84	**6.81**
Cond.	1.143	2.000	2.000	**1.524**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ010-21A	WELL NO.	PZ010
DATE/TIME COLLECTED	5-22-21 / 1055	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft. BTOC)	32.85
Time Started	955	Depth to Water (ft. BTOC)	13.1
Time Completed	1055	Water Column Length	19.75
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.24
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	30

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KA
1000	2.5	6.75	14.46	2.15	0.13	-116.4	6.34	13.14	500
1005	5.0	6.759	14.46	2.15	0.14	-118.8	5.25	"	"
1010	7.5	6.81	14.07	2.13	0.14	-119.7	4.80	"	"
1015	10	6.82	14.17	2.08	0.21	-121.9	4.02	"	"
1020	12.5	6.83	14.54	2.07	0.32	-125.9	4.00	"	"
1025	15	6.83	14.36	2.04	0.43	-127.6	3.02	"	"
1030	17.5	6.82	14.53	2.02	0.51	-134.1	2.80	"	"
1035	20	6.81	14.80	2.02	0.60	-137.7	2.53	"	"
1040	22.5	6.82	14.61	2.02	0.67	-138.4	2.16	"	"
1045	25.0	6.83	14.55	1.99	0.73	-142.6	2.04	"	"
1050	27.5	6.85	14.73	1.98	0.79	-149.3	1.88	"	"
1055	30	6.89	14.60	1.98	0.82	-157.8	1.68	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	Lamotte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 0.69 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-295.1	70.0	70.0	**-95.6**
DO	0.11	3.23	0.87	**1.55**
PH	6.40	6.99	6.76	**6.75**
Cond.	0.849	1.880	1.880	**1.394**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ011-21A	WELL NO.	PZ011
DATE/TIME COLLECTED	5-22-21 / 1205	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft. BTOC)	32.90
Time Started	1125	Depth to Water (ft. BTOC)	12.29
Time Completed	1205	Water Column Length	20.61
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.77
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ mL/min KB
1130	2.5	6.61	12.89	2.21	0.09	-150.1	2.38	12.32	500
1135	5.0	6.43	13.37	2.22	0.05	-142.7	3.38	"	"
1140	7.5	6.43	13.59	2.16	0.04	-143.6	3.22	"	"
1145	10	6.46	13.27	2.14	0.05	-146.2	3.13	"	"
1150	12.5	6.49	13.52	2.16	0.05	-145.3	3.30	"	"
1155	15	6.56	13.75	2.13	0.04	-148.1	4.00	"	"
1200	17.5	6.52	13.70	2.13	0.04	-150.3	3.91	"	"
1205	20	6.52	13.87	2.10	0.04	-151.3	3.99	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb Meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 2.18 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-213.1	-22.3	-93.0	**-97.5**
DO	0.18	6.28	0.42	**1.55**
PH	6.05	7.00	7.00	**6.39**
Cond.	1.381	2.027	1.940	**1.747**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ012-21A	WELL NO.	PZ012
DATE/TIME COLLECTED	5-23-21/830	PERSONNEL	AE, IC M
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: **Groundwater**

SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	**NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft. BTOC)	32.85
Time Started	RE ~~745~~ 750	Depth to Water (ft. BTOC)	12.60
Time Completed	830	Water Column Length	20.25
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.55
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
7505	2.5	6.49	11.70	1.948	0.06	-108.9	3.03	12.63	500
800	5.0	6.60	11.70	1.94	0.06	-119.5	3.31	"	"
805	7.5	6.73	11.72	1.94	0.04	-129.0	3.06	"	"
810	10	6.74	11.73	1.95	0.03	-132.0	3.53	"	"
815	12.5	6.75	11.71	1.93	0.03	-134.1	3.74	"	"
820	15	6.75	11.79	1.92	0.02	-135.7	3.66	"	"
825	17.5	6.75	11.74	1.93	0.02	-137.2	3.63	"	"
830	20	6.75	11.77	1.92	0.02	-138.2	3.39	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - DAILY	

GENERAL COMMENTS

Ferrous Iron = 2.4 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-278.1	-72.0	-72.0	**-137.0**
DO	0.19	0.89	0.37	**0.43**
PH	6.25	6.58	6.58	**6.42**
Cond.	1.441	2.297	1.920	**1.862**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ013-21A	WELL NO.	PZ013
DATE/TIME COLLECTED	5-22-21 / 1335	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft. BTOC)	32.89
Time Started	1235	Depth to Water (ft. BTOC)	11.44
Time Completed	1335	Water Column Length	21.45
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	13.3
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	30

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
1240	2.5	6.57	13.35	2.07	0.14	20.2	6.02	11.49	500
1245	5.0	6.52	13.44	2.06	0.13	-11.6	4.46	11	11
1250	7.5	6.55	13.66	2.06	0.14	-31.4	3.73	11	11
1255	10	6.61	13.85	2.05	0.14	-42.9	2.79	11	11
1300	12.5	6.63	14.12	2.05	0.12	-51.7	1.73	11	11
1305	15	6.66	13.53	2.05	0.12	-62.4	2.51	11	11
1310	17.5	6.68	13.89	2.06	0.12	-72.8	1.91	11	11
1315	20	6.68	13.85	2.04	0.13	-81.2	2.32	11	11
1320	22.5	6.70	13.83	2.04	0.11	-89.0	2.66	11	11
1325	25.0	6.77	13.67	2.05	0.10	-102.2	1.82	11	11
1330	27.5	6.80	13.42	2.04	0.09	-112.0	1.50	11	11
1335	30	6.80	13.48	2.04	0.09	-122.3	1.70	11	11

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 1.2 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	-154.3	-65.4	-21A1	**-101.9**
DO	0.11	5.79	0.42	**1.36**
PH	6.29	6.78	6.50	**6.45**
Cond.	1.479	2.374	2.200	**1.905**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ014-21A	WELL NO.	PZ014
DATE/TIME COLLECTED	5-23-21 / 9&40 (AM)	PERSONNEL	BE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft. BTOC)	32.85
Time Started	900	Depth to Water (ft. BTOC)	11.8
Time Completed	9&40 (AM)	Water Column Length	21.05
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	13
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20 KD

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min KD
905	2.5	6.87	12.07	1.81	0.08	-84.5	15.0	11.84	500
910	5.0	6.78	12.12	1.79	0.06	-72.1	8.08	11.85	11
915	7.5	6.68	12.09	1.79	0.06	-69.5	5.38	11	11
920	10	6.63	12.17	1.77	0.11	-63.8	2.83	11	11
925	12.5	6.62	12.25	1.77	0.26	-58.7	3.41	11	11
930	15	6.62	12.20	1.77	0.31	-54.4	1.89	11	11
935	17.5	6.62	12.19	1.76	0.32	-51.5	2.97	11	11
940	20	6.62	12.34	1.75	0.34	-48.9	1.56	11	11

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb Meter	Daily

GENERAL COMMENTS

Ferrous Iron = 2.67 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-76.0	-18.2	-76.0	**-40.5**
DO	0.19	0.80	0.80	**0.45**
PH	6.62	6.92	6.92	**6.77**
Cond.	1.304	1.957	1.700	**1.598**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ015-21A	WELL NO.	PZ015
DATE/TIME COLLECTED	5-21-21 @ 1525	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-21-21	Well Depth (ft. BTOC)	32.84
Time Started	1445	Depth to Water (ft. BTOC)	11.48
Time Completed	1525	Water Column Length	21.36
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	13.24
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1450	2.5	6.30	12.88	0.628	0.06	49.2	6.46	11.53	0.5
1455	5.0	6.15	12.99	0.628	0.09	54.7	4.22	11.53	
1500	7.5	6.16	13.25	0.633	0.12	43.8	3.06	11.51	
1505	10.0	6.21	13.17	0.633	0.08	37.8	1.36	11.50	
1510	12.5	6.20	13.22	0.635	0.12	35.2	0.61	11.50	
1515	15.0	6.19	13.26	0.635	0.12	35.8	0.73	11.50	
1520	17.5	6.18	13.35	0.634	0.13	35.7	0.63	11.50	
1525	20.0	6.18	13.28	0.633	0.14	35.4	0.68	11.50	
				JO					

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 4.06 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 20.5 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

Used a LaMotte turbidity meter for turbidity readings

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-96.0	83.2	-96.0	**-10.2**
DO	0.35	1.74	0.35	**0.79**
PH	5.95	6.45	6.30	**6.23**
Cond.	0.494	0.843	0.843	**0.687**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ016-21A	WELL NO.	PZ016
DATE/TIME COLLECTED	5-22-21 @ 0825	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-22-21	Well Depth (ft. BTOC)	32.80
Time Started	0745	Depth to Water (ft. BTOC)	11.12
Time Completed	0825	Water Column Length	21.68
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	13.44
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
0750	2.5	6.35	12.59	0.830	0.12	154.4	7.71	11.18	0.5
0755	5.0	6.30	12.58	0.831	0.11	146.3	1.81	11.18	
0800	7.5	6.33	12.71	0.830	0.10	135.0	0.97	11.19	
0805	10.0	6.40	12.66	0.830	0.10	125.9	0.60	11.19	
0810	12.5	6.40	12.51	0.831	0.13	124.4	0.00	11.19	
0815	15.0	6.41	12.41	0.829	0.14	123.1	0.00	11.19	
0820	17.5	6.40	12.39	0.831	0.18	120.9	0.00	11.19	
0825	20.0	6.38	12.44	0.837	0.17	121.9	0.00	11.19	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.13 mg/L

Multi-Parameter Probe Unit # SN 669704

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 21 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-86.9	144.9	70.0	**20.4**
DO	0.22	1.23	0.36	**0.56**
PH	6.40	6.89	6.63	**6.63**
Cond.	0.549	0.871	0.871	**0.674**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ017R-21A	WELL NO.	PZ017R
DATE/TIME COLLECTED	5-26-21 / 0835 0845	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	**YES**	NO	DUPLICATE SAMPLE NO.	PZ021-21A (800)
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft. BTOC)	32.42
Time Started	0745	Depth to Water (ft. BTOC)	9.73
Time Completed	0845	Water Column Length	22.69
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	14.07
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	30

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
0750	2.5	6.30	11.57	0.88	0.11	201.8	1.49	9.74	500
0755	5.0	6.06	11.56	0.90	0.07	210.7	0.90	9.74	"
0800	7.5	6.01	11.61	0.90	0.06	207.3	1.22	"	"
0805	10	6.04	11.65	0.91	0.05	200.8	1.08	"	"
0810	12.5	6.12	11.68	0.90	0.04	190.5	0.81	"	"
0815	15	6.17	11.82	0.91	0.04	180.9	0.76	"	"
0820	17.5	6.19	11.94	0.91	0.04	174.3	0.61	"	"
0825	20	6.20	11.99	0.91	0.04	168.4	0.76	"	"
0830	22.5	6.19	12.11	0.91	0.04	161.9	0.54	"	"
0835	25.0	6.19	11.90	0.91	0.03	155.2	0.54	"	"
0840	27.5	6.18	12.10	0.91	0.03	149.4	0.57	"	"
0845	30	6.17	12.16	0.91	0.03	144.5	0.88	"	"
		MPR							

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LaMotte Turb Meter - ~~2x~~ Daily	

GENERAL COMMENTS

Ferrous Iron = 0.27 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 22.5 ft

Pump Rate = 500 ml/min

Well Diameter = 2"

Screen Interval = 10-30

Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)				
ORP	6.8	202.6	6.8	**119.7**
DO	0.01	5.92	0.01	**3.16**
PH	6.07	6.90	6.38	**6.36**
Cond.	0.628	0.902	0.902	**0.775**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ018-21A	WELL NO.	PZ018
DATE/TIME COLLECTED	5-25-21 @ 1525	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-25-21	Well Depth (ft. BTOC)	31.90
Time Started	1445	Depth to Water (ft. BTOC)	11.24
Time Completed	1525	Water Column Length	20.66
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	12.81
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1450	2.5	5.80	14.25	0.854	0.12	46.4	0.00	11.23	0.5
1455	5.0	5.81	14.28	0.858	0.10	42.5	0.45	11.24	↓
1500	7.5	5.85	14.27	0.873	0.04	32.2	0.00	11.25	↓
1505	10.0	5.88	14.23	0.868	0.07	25.3	0.40	11.26	↓
1510	12.5	5.91	14.80	0.873	0.12	21.2	0.68	11.25	↓
1515	15.0	5.94	14.88	0.875	0.08	15.9	0.00	11.26	↓
1520	17.5	5.95	14.59	0.872	0.02	12.7	0.92	11.26	↓
1525	20.0	5.96	14.65	0.870	0.01	11.5	0.70	11.26	↓
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 6.3 mg/L

Used a LaMotte meter for turbidity readings

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 21 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-9.9	187.6	-9.9	**125.8**
DO	0.33	9.26	0.36	**3.88**
PH	5.52	6.57	6.28	**6.23**
Cond.	0.520	0.822	0.713	**0.637**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ019-21A	WELL NO.	PZ019
DATE/TIME COLLECTED	5-24-21 @ 1550	PERSONNEL	JO GC
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	N.A
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	**YES** NO	MS/MSD SAMPLE NO.	PZ019-21A MS/MSD

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-23-21	Well Depth (ft. BTOC)	32.23
Time Started	~~1515~~ 1510	Depth to Water (ft. BTOC)	15.37
Time Completed	1550	Water Column Length	16.86
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	10.45
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
1515									
~~1520~~	2.5	6.14	13.05	0.723	9.34	119.5	0.00	15.35	0.5
1520	5.0	6.15	13.02	0.721	9.06	126.0	0.00	15.38	
1525	7.5	6.16	13.05	0.721	8.67	135.5	0.00	15.38	
1530	10.0	6.24	13.14	0.718	8.51	140.4	0.00	15.37	
1535	12.5	6.29	13.10	0.716	8.45	143.2	0.00	15.37	
1540	15.0	6.33	13.24	0.712	8.42	145.1	0.00	15.37	
1545	17.5	6.35	13.37	0.711	8.41	145.6	0.00	15.37	
1550	20.0	6.39	13.35	0.709	8.36	145.8	0.00	15.37	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.05 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 23 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

Used a LaMotte meter for turbidity readings.

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	-4.3	287.2	162.2	**134.6**
DO	6.44	10.83	7.35	**8.67**
PH	5.92	6.49	6.32	**6.16**
Cond.	0.377	0.663	0.663	**0.533**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	PZ020-21A	WELL NO.	PZ020
DATE/TIME COLLECTED	5-26-21 @ 1140	PERSONNEL	JO
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		GC
SAMPLE MEDIA:	Groundwater		
SAMPLE QA SPLIT:	YES **NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES **NO**	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES **NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
2 - 500 mL Amber	6°C	Explosives + MNX (8330A)
3 - 40 mL VOA	6°C, HCl	Methane (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
1 - 250 mL HDPE	6°C, ZnOAc/NaOH	Sulfide (9034)
1 - 250 mL Amber	6°C	DOC (9060A)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft. BTOC)	32.33
Time Started	1100	Depth to Water (ft. BTOC)	14.00
Time Completed	1140	Water Column Length	18.33
PID Measurements		Well Casing Volume (per ft)	0.62
Background	ND	Volume of Water in Well (L)	11.36
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	20

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate (L/min)
		6.71							
1105	2.5	~~6.71~~ 20	12.51	1.006	3.10	57.9	0.00	13.91	0.5
1110	5.0	6.73	12.68	1.005	3.08	69.1	0.00	13.93	
1115	7.5	6.79	12.74	0.999	2.93	77.2	0.00	13.93	
1120	10.0	6.82	12.66	1.002	2.86	80.7	0.00	13.93	
1125	12.5	6.85	12.64	1.002	2.83	83.7	0.00	13.93	
1130	15.0	6.88	12.76	1.000	2.79	88.1	0.00	13.93	
1135	17.5	6.89	12.76	1.004	2.77	89.4	0.00	13.92	
1140	20.0	6.91	12.80	1.003	2.77	92.8	0.00	13.92	
			JO						

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

GENERAL COMMENTS

Ferrous Iron = 0.00 mg/L

Multi-Parameter Probe Unit # 643305

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 22 ft

Pump Rate = 0.5 L/min

Well Diameter = 2"

Screen Interval = 10-30

	Historic (7-year average low and high / 2020 or Q5 / Avg in Bold)			
ORP	21.7	166.3	104.1	**105.6**
DO	1.73	7.07	2.65	**3.70**
PH	6.54	6.87	6.87	**6.73**
Cond.	0.796	1.350	0.916	**1.054**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	SHGW02-21A	WELL NO.	SHGW02
DATE/TIME COLLECTED	5-26-21/1040	PERSONNEL	AE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA:	Groundwater			
SAMPLE QA SPLIT:	YES	**NO**	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	**YES**	NO	DUPLICATE SAMPLE NO.	SHGW05-21A (800)
MS/MSD REQUESTED	YES	**NO**	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 - 40 mL VOA	6°C, HCl	VOC (8260B/5030B)
3 - 40 mL VOA	6°C, HCl	Methane, Ethane, Ethene (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	NO2/NO3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft BTOC)	24.11
Time Started	950	Depth to Water (ft BTOC)	10.84
Time Completed	1040	Water Column Length	13.27
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	32.78
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	25

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ ml/min
955	2.5	5.15	12.58	0.58	0.07	-4.5	4.44	11.25	500
1000	5.0	4.95	12.57	0.58	0.03	-5.8	4.96	"	"
1005	7.5	4.83	12.49	0.58	0.04	-11.8	4.44	"	"
1010	10	4.97	12.60	0.56	0.03	-36.8	4.37	"	"
1015	12.5	5.16	12.62	0.56	0.02	-59.1	4.30	"	"
1020	15	5.27	12.72	0.56	0.02	-70.4	4.71	"	"
1025	17.5	5.50	12.64	0.56	0.02	-93.8	4.27	"	"
1030	20	5.53	12.59	0.56	0.02	-100.2	3.90	"	"
1035	22.5	5.57	12.58	0.56	0.02	-106.5	3.62	"	"
1040	25	5.63	12.61	0.56	0.02	-110.0	4.89	"	"

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly
	LA Motte Turb meter - Daily	

GENERAL COMMENTS

Ferrous Iron = 0.69 mg/L

Multi-Parameter Probe Unit # 1

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = 17.5 ft

Pump Rate = 500 ml/min

Well Diameter = 4"

Screen Interval = 6-21

	Historic (7-year average low and high / 2020 / Avg in Bold)			
ORP	-41.0	215.8	-25.0	**27.4**
DO	0.22	0.78	0.48	**0.42**
PH	4.60	6.05	5.45	**5.63**
Cond.	0.354	0.588	0.520	**0.448**

WATER SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME	CHAAP	PROJECT NO.	60565355
SAMPLE NO.	SHGW03-21A	WELL NO.	SHGW03
DATE/TIME COLLECTED	5-26-21 / 1205	PERSONNEL	NE, KM
SAMPLE METHOD	PRO-ACTIVE SS MONSOON		

SAMPLE MEDIA: Groundwater

SAMPLE QA SPLIT:	YES	NO	SPLIT SAMPLE NO.	NA
SAMPLE QC DUPLICATE:	YES	NO	DUPLICATE SAMPLE NO.	NA
MS/MSD REQUESTED	YES	NO	MS/MSD SAMPLE NO.	NA

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 - 40 mL VOA	6°C, HCl	VOC (8260B/5030B)
3 - 40 mL VOA	6°C, HCl	Methane, Ethane, Ethene (RSK 175)
1 - 500 mL HDPE	6°C, H_2SO_4	NO2/NO3 (353.2)
1 - 250 mL HDPE	6°C	SO_4 (9056A), Alkalinity (2320B)
2 - 1 L Amber	6°C	DRO (8015B)

WELL PURGING DATA

Date	5-26-21	Well Depth (ft BTOC)	23.70
Time Started	1115	Depth to Water (ft BTOC)	9.75
Time Completed	1205	Water Column Length	13.95
PID Measurements		Well Casing Volume (per ft)	2.47
Background	ND	Volume of Water in Well (L)	34.45
Breathing Zone	ND	Casing Volumes to Purge	NA
Well Head	ND	Minimum to Purge (L)	20
Purge Water	ND	Actual Purge (L)	25

LNAPL / DNAPL Present: YES (NO) Method Used Bailer Thickness (ft) 0.0

FIELD MEASUREMENTS

Time	Amount Purged (L)	pH	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)	Depth to Water (ft BTOC)	Purge Rate ~~(L/min)~~ KD ~~ml/min~~
1120	2.5	6.33	12.02	0.45	0.24	39.5	2.24	9.89	500
1125	5.0	6.13	11.97	0.45	0.24	73.3	1.70	9.89	"
1130	7.5	5.89	12.10	0.44	0.31	102.2	2.24	"	"
1135	10	5.77	12.11	0.44	0.49	120.2	2.50	"	"
1140	12.5	5.75	12.18	0.44	0.66	130.4	2.97	"	"
1145	15	5.76	12.15	0.44	0.66	132.8	3.76	"	"
1150	17.5	5.80	12.13	0.44	0.85	128.1	3.38	"	"
1155	20	5.84	12.21	0.44	1.07	122.8	3.57	"	"
1200	22.5	5.86	12.26	0.45	1.02	115.4	4.34	"	"
1205	25.0	5.88	12.13	0.45	1.05	113.7	3.97	"	"
~~1210~~	~~27.5~~	pH							
1215	30	pH							

FIELD EQUIPMENT AND CALIBRATION

	Model	Calibration
Water Level Probe	Heron	Checked Against Calibrated Length
Water Quality Meter	Aqua TROLL 500 w/ flow through cell	Twice Daily Calibration Verification also Calibrated Weekly

LA Motte Turb Meter - Daily

GENERAL COMMENTS

Ferrous Iron = 0.22 mg/L

Multi-Parameter Probe Unit # Heron

Field Parameters Measured in Flow-Through Cell

Pump Placement Depth = ~~16.50~~ ft 16.0

Pump Rate = 500 ml/min

Well Diameter = 4"

Screen Interval = 6-21

	Historic (7-year average low and high / 2020 / Avg in Bold)			
ORP	-104.2	82.1	65.0	**-18.5**
DO	0.27	0.99	0.99	**0.42**
PH	5.83	6.26	5.88	**6.04**
Cond.	0.362	0.578	0.381	**0.442**

DAILY QUALITY CONTROL REPORT

Date **05/18/21**

Day	S	S	M	T	W	T	F
				X			

On Site Hours	0700-1730
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
			X		
Temp	To 32	32-50	50-70	70-85	85 up
			X		
Wind	Still	Moderate	High	**Report No.**	
Humidity	Dry	Moderate	Humid	1	
			X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):

-Began OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).
Completed site-wide water level measurement round.

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #2 (Serial #669704).

Health and Safety and Activities:

Had the initial H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

G0120 is damaged and water level measurement and gw sample cannot be collected.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.
-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	05/19/21

Day	S	S	M	T	W	T	F
					X		

On Site Hours	0700-1700
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
			X	X	
Temp	To 32	32-50	50-70	70-85	85 up
			X		
Wind	Still	Moderate	High	**Report No.**	
		X			
Humidity	Dry	Moderate	Humid	2	
			X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz; Brice - Kyle Milkey

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (10)

CA210-21A	NW060-21A
CA211-21A	NW061-21A
CA212-21A	NW062-21A
CA213-21A	G0085-25A
NW070-21A	
NW071-21A	

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #2 (Serial #669704).
-NW062-21A (MS/MSD)

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date: **05/20/21**

Day	S	S	M	T	W	T	F
						X	

On Site Hours	0700-1700
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
			X		
Temp	To 32	32-50	50-70	70-85	85 up
			X		
Wind	Still	Moderate	High	**Report No.**	
		X	X		
Humidity	Dry	Moderate	Humid	3	
			X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz; Brice - Kyle Milkey

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (10)

G0070-21A	G0088-21A
G0075-21A	G0089-21A
G0076-21A	G0090-21A
G0079-21A	G0082-21A
G0080-21A	
G0081-21A	

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #2 (Serial #669704).
-G0070-21A (MS/MSD)

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

Aqua Troll 500 turbidy were inaccurate, began using Lamotte turbidty meters.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	**05/21/21**

Day	S	S	M	T	W	T	F
							X

On Site Hours	0700-1630
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun		Clear	Overcast	Rain	Snow
				X		
Temp	To 32		32-50	50-70	70-85	85 up
					X	
Wind	Still	Moderate		High	**Report No.**	
				X		
Humidity	Dry	Moderate		Humid	4	
				X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (12)

G0102-21A	G0023-21A
G0103-21A	G0048-21A
G0104-21A	G0049-21A
G0105-21A	G0083-21A
G0106-21A	G0093-21A
G0107-21A	PZ015-21A

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #2 (Serial #669704).

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	**05/22/21**

Day	S	S	M	T	W	T	F
	X						

On Site Hours	0700-1730
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun		Clear	Overcast	Rain	Snow
				X		
Temp	To 32		32-50	50-70	70-85	85 up
					X	
Wind	Still	Moderate		High	**Report No.**	
				X		
Humidity	Dry	Moderate		Humid	5	
				X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (12)

G0067-21A	G0118-21A
G0108-21A	PZ009-21A
G0110-21A	PZ010-21A
G0114-21A	PZ011-21A
G0116-21A	PZ013-21A
G0117-21A	PZ016-21A

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #2 (Serial #669704).

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	**05/23/21**

Day	S	S	M	T	W	T	F
		X					

On Site Hours	0700-1700
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun		Clear	Overcast	Rain	Snow
				X		
Temp	To 32		32-50	50-70	70-85	85 up
					X	
Wind	Still	Moderate		High	**Report No.**	
		X				
Humidity	Dry	Moderate		Humid	6	
				X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (13)

PZ012-21A	G0099-21A	G0122-21A
PZ014-21A	G0100-21A	
G0066R-21A	G0109-21A	
G0095-21A	G0112-21A	
G0097-21A	G0113-21A	
G0098-21A	G0119-21A	

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #3 (Serial #643305).

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

Aqua Troll #2's conductivity was not functioning correctly so we put Troll #3 (serial # 643305) into service.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.
-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	05/24/21

Day	S	S	M	T	W	T	F
			X				

On Site Hours	0700-1730
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun		Clear	Overcast	Rain	Snow
				X	X	
Temp	To 32		32-50	50-70	70-85	85 up
					X	
Wind	Still	Moderate		High	**Report No.**	
				X		
Humidity	Dry	Moderate		Humid	7	
				X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (13)

PZ001-21A	G0091-21A	G0123-21A
PZ004-21A	G0092-21A	
PZ005-21A	G0101-21A	
PZ019-21A	G0111-21A	
G0044-21A	G0115-21A	
G0084-21A	G0121-21A	

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #3 (Serial #643305).

'-Duplicate G0311-21A (parent G0111-21A). PZ001-21A MS/MSD, PZ019-21A MS/MSD.

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	**05/25/21**

Day	S	S	M	T	W	T	F
				X			

On Site Hours	0700-1700
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun		Clear X	Overcast X	Rain X	Snow
Temp	To 32		32-50	50-70	70-85 X	85 up
Wind	Still X	Moderate		High	**Report No.**	
Humidity	Dry	Moderate		Humid X	8	

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (12)

PZ007-21A	G0087-21A
PZ018-21A	G0094-21A
G0017-21A	G0096-21A
G0022-21A	NW020-21A
G0045-21A	NW021-21A
G0086-21A	NW022-21A

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #3 (Serial #643305).
-Duplicates G0296-21A (parent G0096-21A), NW023-21A (parent NW020-21A). PZ007-21A MS/MSD.

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date **05/26/21**

Day	S	S	M	T	W	T	F
					X		

On Site Hours	0700-1330
Travel Time	2.5
Office Time	0.5

COE Project Manager Brian Fettin
Project CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No. 60565355
Contract No. W9128F-18-D-0020

Weather	Bright Sun		Clear X	Overcast	Rain	Snow
Temp	To 32		32-50	50-70	70-85 X	85 up
Wind	Still	Moderate X		High	**Report No.**
Humidity	Dry	Moderate X		Humid	9

Subcontractors on Site:
None.

Equipment on Site:
Support trucks, Monsoon pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, Aqua Troll 500, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:
None.

AECOM/Brice Personnel on Site:
AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling; Brice - Kyle Milkey, Gary Carson

Field Work Performed (including sampling):
-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Monitoring Wells sampled (7)

PZ017R-21A
PZ020-21A
G0024-21A
G0077-21A
G0078-21A
SHGW02-21A
SHGW03-21A

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):
-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628) #3 (Serial #643305).
-Duplicates PZ021-21A (parent PZ017R-21A), SHGW05-21A (parent SHGW02-21A).

Health and Safety and Activities:
Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:
OU1-OU3 LTM monioting well activities complete. Remob 6/1 to continue with Q#6 activities.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.
-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	06/01/21

Day	S	S	M	T	W	T	F
				X			

On Site Hours	1000 - 1630
Travel Time	2.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun		Clear X	Overcast	Rain / Snow
Temp	To 32		32-50	50-70	70-85 X / 85 up
Wind	Still	Moderate X		High	**Report No.**
Humidity	Dry	Moderate X		Humid	10

Subcontractors on Site:

Plains Environmental Services (PES) (Direct Push Subcontractor) - Jason Auernheimer

Equipment on Site:

One direct push rig (Geoprobe 6620DT), Screen point sampler (SP15), support trucks, hand-held GPS unit, performance monitoring (PM) temporary well materials (1"-OD PVC., 10' screens, filter pack sand, granular bentonite, coated chips, grout mix), peristaltic pump and tubing, laboratory provided sample containers, IDW buckets, decon supplies, AquaTroll 500, LaMotte turbidity meter, Hach Colormeter, water level meters, MiniRAE PID, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Off-post Direct Push Groundwater Sampled (3)

NW050R - DP06-20
NW050R - DP06-35
NW050R - DP06-60

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T).

Health and Safety and Activities:

Had the initial H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.
-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	06/02/21

Day	S	S	M	T	W	T	F
					X		

On Site Hours	700 - 1730
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
		X			
Temp	To 32	32-50	50-70	70-85	85 up
				X	
Wind	Still	Moderate	High	**Report No.**	
		X			
Humidity	Dry	Moderate	Humid	11	
		X			

Subcontractors on Site:

Plains Environmental Services (PES) (Direct Push Subcontractor) - Jason Auernheimer

Equipment on Site:

One direct push rig (Geoprobe 6620DT), Screen point sampler (SP15), support trucks, hand-held GPS unit, performance monitoring (PM) temporary well materials (1"-OD PVC., 10' screens, filter pack sand, granular bentonite, coated chips, grout mix), peristaltic pump and tubing, laboratory provided sample containers, IDW buckets, decon supplies, AquaTroll 500, LaMotte turbidity meter, Hach Colormeter, water level meters, MiniRAE PID, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

USACE - Brian Fettin State of Nebraska - Allie Grady

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling, Dean Converse; Brice - Gary Carson

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Off-post Direct Push Groundwater Sampled (3)		Performance Monitoring Well Installed (temporary) (3)
OS001-DP06-25	OS003-DP06-45	EW7-PM21A
OS001-DP06-35		EW7-PM26A
OS001-DP06-45		EW7-PM26B
OS003-DP06-25		
OS003-DP06-35		

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T).

-Duplicate OS501-DP06-25 (parent OS001-DP06-25). OS003-DP06-45 MS/MSD.

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

USACE, NDEE on and off-site for site visit.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	06/03/21

Day	S	S	M	T	W	T	F
						X	

On Site Hours	0700-1730
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
		X			
Temp	To 32	32-50	50-70	70-85	85 up
				X	
Wind	Still	Moderate	High	**Report No.**	
		X			
Humidity	Dry	Moderate	Humid	12	
		X			

Subcontractors on Site:

Plains Environmental Services (PES) (Direct Push Subcontractor) - Jason Auernheimer

Equipment on Site:

One direct push rig (Geoprobe 6620DT), Screen point sampler (SP15), support trucks, hand-held GPS unit, performance monitoring (PM) temporary well materials (1"-OD PVC., 10' screens, filter pack sand, granular bentonite, coated chips, grout mix), peristaltic pump and tubing, laboratory provided sample containers, IDW buckets, decon supplies, AquaTroll 500, LaMotte turbidity meter, Hach Colormeter, water level meters, MiniRAE PID, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Performance Monitoring Well Installed (temporary) (7)		Performance Monitoring Wells Sampled (2)
EW7-PM24A	EW7-PM29A	EW7-PM26A-6-25
EW7-PM25A	EW7-PM29B	EW7-PM26B-6-35
EW7-PM25B		
EW7-PM27B		
EW7-PM28A		

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628).

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	06/04/21

Day	S	S	M	T	W	T	F
							X

On Site Hours	0700 - 1600
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
		X			
Temp	To 32	32-50	50-70	70-85	85 up
					X
Wind	Still	Moderate	High	**Report No.**	
			X		
Humidity	Dry	Moderate	Humid	13	
		X			

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Peristaltic pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Jonathan Ortiz, Kameron Daehling

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Performance Monitoring Wells Sampled (4)

EW7-PM25A-6-25
EW7-PM25B-6-35
EW7-PM29A-6-25
EW7-PM29B-6-35

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628).

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	06/05/21

Day	S	S	M	T	W	T	F
	X						

On Site Hours	0800 - 1630
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear	Overcast	Rain	Snow
		X			

Temp	To 32	32-50	50-70	70-85	85 up
					X

Wind	Still	Moderate	High	**Report No.**
			X	

Humidity	Dry	Moderate	Humid	14
		X		

Subcontractors on Site:

None.

Equipment on Site:

Support trucks, Peristaltic pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:

None.

AECOM/Brice Personnel on Site:

AECOM - Bob Exceen, Ryan Herold, Kameron Daehling,

Field Work Performed (including sampling):

-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).

Performance Monitoring Wells Sampled (4)

EW7-PM21A-6-25
EW7-PM24A-6-25
EW7-PM27B-6-35
EW7-PM28A-6-25

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):

-Calibration check of PIDs (serial #'s 110-014926, 110-014888) , water level indicators (#'s 1324-T, 1323-T), Aqua Troll 500 #1 (serial #648628).

Health and Safety and Activities:

Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:

None.

Office Work Performed:

-Organized paperwork and equipment, scanned SCFSs.

-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date	**06/06/21**

Day	S	S	M	T	W	T	F
		X					

On Site Hours	0800 - 1030
Travel Time	0.5
Office Time	0.5

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temp	To 32	32-50	50-70	70-85 X	85 up
Wind	Still	Moderate	High X	**Report No.**	
Humidity	Dry	Moderate X	Humid	15	

Subcontractors on Site:
None.

Equipment on Site:
Support trucks, Peristaltic pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:
None.

AECOM/Brice Personnel on Site:
AECOM - Bob Exceen, Ryan Herold, Kameron Daehling,

Field Work Performed (including sampling):
-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).
-abandoned 10 temporary PM wells
-collected IDW water sample: WATER-WC-Q6-JUN21

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):
None.

Health and Safety and Activities:
Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.
-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:
None.

Office Work Performed:
-Organized paperwork and equipment, scanned SCFSs.
-Completed DQCR.

By Ryan Herold **Title** Field Manager

DAILY QUALITY CONTROL REPORT

Date **06/07/21**

Day	S	S	M	T	W	T	F
			X				

On Site Hours	0800 - 1000
Travel Time	2.5
Office Time	1

COE Project Manager	Brian Fettin
Project	CHAAP OU1 Rebound Study/ PMs-Q#6 & OU1-OU3 LTM
Project No.	60565355
Contract No.	W9128F-18-D-0020

Weather	Bright Sun	Clear X	Overcast	Rain	Snow
Temp	To 32	32-50	50-70	70-85 X	85 up
Wind	Still	Moderate X	High	**Report No.**	
Humidity	Dry	Moderate X	Humid	16	

Subcontractors on Site:
None.

Equipment on Site:
Support trucks, Peristaltic pumps and tubing, laboratory provided sample containers, IDW buckets, decon supplies, LaMotte turbidity meters, Hach Colormeters, water level meters, MiniRAE PIDs, level D PPE, first-aid/safety supplies, and field/safety paperwork.

Visitors on Site:
None.

AECOM/Brice Personnel on Site:
AECOM - Ryan Herold, Kameron Daehling,

Field Work Performed (including sampling):
-Continued OU1 Rebound Study Q#6 and OU1-OU3 LTM sampling events (install/sample/abandon performance monitoring wells, DP screen point sampling, and MW sampling).
-Completed site restoration, equipment storage, final sample shipments, and demobilization.

-OU1/OU3 sample analysis will be completed in accordance with Addendum 2, and Addendum 3 UFP-QAPPs.
-Containerized IDW purge/decontamination water in a designated labeled 1500-gallon poly tank at GWTF.

Quality Control Activities (including field calibration):
None.

Health and Safety and Activities:
Had the daily H&S meeting with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, hazards with direct push rigs, pump and traffic safety, potential exposure to explosives contamination, fire hazards, heat stress, hearing protection, slip-trip-falls, COVID-19, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety. Utility locates were performed (Nebraska811) and utilities were marked.

-Re-capped overall health and safety concerns, stressed road, COVID-19, and sampling safety.
-Completed Daily Tailgate Meeting Sheet
-Completed Daily Task Hazard Assessment Sheet

Observations/Problems Encountered/Corrective Action Taken:
Field team demobed 6/7/21.

Office Work Performed:
-Organized paperwork and equipment, scanned SCFSs.
-Completed DQCR.

By Ryan Herold **Title** Field Manager

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	1
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	5/18/21 to 5/21/21
		Brice/AECOM On-site Hours	180
Project No.	60565355	**Subcontractor Hours**	0
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

AECOM/Brice Personnel on Site:
Ryan Herold, Bob Exceen, Jonathan Ortiz (AECOM), Kyle Milke, Gary Carson (Brice)

Subcontractors on Site:
None.

Visitors on Site:
None.

Summary of Work Performed:
-Contacted private land owners and informed them of the upcoming 2021 annual OU1/OU3 and OU1 Rebound Study/performance monitoring (PM) field activities. Completed utility locates prior to subsurface activities (week of 5/24/21).
-Mobilized to site, conducted initial health and safety meeting, prepped field equipment, and staked all direct push (DP) locations using hand-held GPS including: 3 off-site (screen point) locations - OS001, OS003, and NW050R (adjacent to MW cluster NW050); and 10 temporary PM wells for 2020 subsurface injections.
-Calibration (weekly) and calibration checks (daily) of field PIDs, water level indicators, and Aqua TROLL 500s.

BEGAN 2021 ANNUAL OU1/OU3 LTM AND QUARTER #6 (Q6) OU1 REBOUND STUDY AND INJECTION PM SAMPLING ACTIVITIES:
-Completed site-wide (OU1-OU3) groundwater level measurement event.
-Collected groundwater samples from 32 of the 87* OU1 LTM wells/piezometers (**CA210, CA211, CA212, CA213, NW060, NW061, NW062, NW070, NW071, G0023, G0048, G0049, G0070, G0075, G0076, G0079, G0081, G0082, G0083, G0085, G0086, G0088, G0089, G0090, G0093, G0102, G0103, G0104, G0105, G0106, G0107, PZ015**). Each well was purged and sampled using low-flow groundwater sampling techniques with collection of field water quality parameters, and will be analyzed for explosives+MNX (Method 8330A) and laboratory water quality parameters including: TKN (351.2), NH3 (350.1), NO2/NO3 (353.2), SO4 (9056A), Alkalinity (2320B), Sulfide (9034), DOC (9060A), and Methane (RSK 175). CO2 will be back calculated from 2320B.
-IDW water (purge, develop., and decon.) from all sample locations were containerized in an IDW-labeled poly tank located at GWTF. At the completion of annual LTM/Q6 field activities, the IDW water will be sampled for site waste characterization analysis (Explosives+MNX and VOCs [8260B]) prior to disposal or discharge to ground surface.
-All field and sampling activities were completed in accordance with the 2019 Final Addendum 3 UFP-QAPP, the 2018 Final Addendum 2 UFP-QAPP, and recommendations provided in the 2019 and 2020 Annual Groundwater Monitoring Reports and Draft OU1 Rebound Study Letter Report - Quarter 5 Event.
*Of the 87 annual OU1 LTM wells, 30 wells are included in the OU1 Rebound Study and 10 wells are included in the 2020 subsurface injection PM quarterly events (Q6).

Percentage of Work Completed:
Mobilization, 32 of 87* annual OU1 LTM wells were sampled, 0 of 2 annual OU3 LTM wells were sampled, 0 of 9 off-post DP (screen point) groundwater samples were collected; 0 of 10 temporary PM wells were installed, developed, and sampled. Approximately 29% of the 2021 annual OU1/OU3 LTM and Q6 OU1 Rebound Study/injection PM sampling field work is now complete.

Schedule for Next Week:
Calibration of water quality equipment, complete groundwater purge and sample collection activities at remaining OU1/OU3 monitoring wells, complete Q6 off-post DP (screen point) groundwater sampling activities; install, develop, sample, and abandon Q6 temporary PM wells, and collect IDW water sample.

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	1
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	5/18/21 to 5/21/21
		Brice/AECOM On-site Hours	180
Project No.	60565355	**Subcontractor Hours**	0
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

Health and Safety and Activities:

-Had the initial and daily H&S meetings with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, potential exposure to explosives contamination, weather safety, slip-trip-falls, traffic hazards, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety.

-Completed equipment and vehicle safety checks.

-Completed Daily Tailgate Meeting Sheets and Daily Task Hazard Assessment Sheets.

Deviations from SOW and/or WP:

None.

Problems Encountered/Corrective Action Taken:

In LL2, monitoring well G0120 (pictured below) was identified as damaged due to farming activities and the groundwater level measurement and sample collection activities were not able to be completed. Although G0120 PVC casing (2-inch ID) has been compromised (i.e., pulled up and pinched under metal casing/below ground surface), no direct pathway was identified to groundwater. However, the compromised well will be recommended for repair, replacement, and/or abandonment.

Recommendations:

Due to well G0120 damage and unable to be sampled, the total 2021 annual OU1 LTM wells to be sampled will be reduced from 88 to 87 total. Additionally due to existing wells in proximity and historical concentrations below HALs, well G0120 will be recommended to PDT for abandonment.

Communication Notice This Week:

None.

Key Personnel Changes:

Gary Carson (Brice) off site 5/19, 5/20/21.



Damaged monitoring well G0120 in LL2 (facing east).



Water level measurement at monitoring well G0093 in LL1 (facing north).

By: Ryan Herold **Title: Field Manager**

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	2
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	5/22/21 to 5/26/21
		Brice/AECOM On-site Hours	264
Project No.	60565355	**Subcontractor Hours**	0
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

AECOM/Brice Personnel on Site:

Ryan Herold, Bob Exceen, Jonathan Ortiz, Kameron Daehling (AECOM), Kyle Milke, Gary Carson (Brice)

Subcontractors on Site:

None.

Visitors on Site:

None.

Summary of Work Performed:

-Contacted private land owners and informed them of the upcoming 2021 annual OU1/OU3 and OU1 Rebound Study/performance monitoring (PM) field activities. Completed utility locates prior to subsurface activities (week of 5/24/21).

-Mobilized to site, conducted initial health and safety meeting, prepped field equipment, and staked all direct push (DP) locations using hand-held GPS including: 3 off-site (screen point) locations - OS001, OS003, and NW050R (adjacent to MW cluster NW050); and 10 temporary PM wells for 2020 subsurface injections.

-Calibration (weekly) and calibration checks (daily) of field PIDs, water level indicators, and Aqua TROLL 500s.

CONTINUED 2021 ANNUAL OU1/OU3 LTM AND QUARTER #6 (Q6) OU1 REBOUND STUDY AND INJECTION PM SAMPLING ACTIVITIES:

-Collected groundwater samples from 55 of the 87* OU1 LTM wells/piezometers (**NW020, NW021, NW022, G0017, G0024, G0044, G0045, G0066R, G0067, G0077, G0078, G0080, G0084, G0087, G0091, G0092, G0094, G0095, G0096, G0097, G0098, G0099, G0100, G0101, G0108, G0109, G0110, G0111, G0112, G0113, G0114, G0115, G0116, G0117, G0118, G0119, G0120, G0121, G0122, G0123, PZ001, PZ004, PZ005, PZ007, PZ009, PZ010, PZ011, PZ012, PZ013, PZ014, PZ016, PZ017R, PZ018, PZ019, PZ020**). Each well was purged and sampled using low-flow groundwater sampling techniques with collection of field water quality parameters, and will be analyzed for explosives+MNX (Method 8330A) and laboratory water quality parameters including: TKN (351.2), NH3 (350.1), NO2/NO3 (353.2), SO4 (9056A), Alkalinity (2320B), Sulfide (9034), DOC (9060A), and Methane (RSK 175). CO2 will be back calculated from 2320B.

-Collected groundwater samples from 2 of the 2 OU3-Shop Area LTM wells (**SHGW02**, **SHGW03**). Each well was purged and sampled using low-flow groundwater sampling techniques with collection of field water quality parameters, and will be analyzed for VOCs (Method 8260B) and laboratory water quality parameters including: NO2/NO3, SO4, Alkalinity, and Methane, Ethane, Ethene (RSK 175). One well (SHGW03) was additionally sampled for DRO (Method 8015B).

-IDW water (purge, develop., and decon.) from all sample locations were containerized in an IDW-labeled poly tank located at GWTF. At the completion of annual LTM/Q6 field activities, the IDW water will be sampled for site waste characterization analysis (Explosives+MNX and VOCs) prior to disposal or discharge to ground surface.

-All field and sampling activities were completed in accordance with the 2019 Final Addendum 3 UFP-QAPP, the 2018 Final Addendum 2 UFP-QAPP, and recommendations provided in the 2019 and 2020 Annual Groundwater Monitoring Reports and Draft OU1 Rebound Study Letter Report - Quarter 5 Event.

*Of the 87 annual OU1 LTM wells, 30 wells are included in the OU1 Rebound Study and 10 wells are included in the 2020 subsurface injection PM quarterly events (Q6).

Percentage of Work Completed:

Mobilization, site-wide water level measurements, 87 of 87* annual OU1 LTM wells were sampled, 2 of 2 annual OU3 LTM wells were sampled, 0 of 9 off-post DP (screen point) groundwater samples were collected; 0 of 10 temporary PM wells were installed, developed, and sampled. Approximately 82% of the 2021 annual OU1/OU3 LTM and Q6 OU1 Rebound Study/injection PM sampling field work is now complete.

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	2
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	5/22/21 to 5/26/21
		Brice/AECOM On-site Hours	264
Project No.	60565355	**Subcontractor Hours**	0
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

Schedule for Next Week:

Calibration of water quality equipment, complete Q6 off-post DP (screen point) groundwater sampling activities; install, develop, sample, and abandon Q6 temporary PM wells, and collect IDW water sample.

Health and Safety and Activities:

-Had the daily H&S meetings with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, potential exposure to explosives contamination, weather safety, slip-trip-falls, traffic hazards, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety.

-Completed equipment and vehicle safety checks.

-Completed Daily Tailgate Meeting Sheets and Daily Task Hazard Assessment Sheets.

Deviations from SOW and/or WP:

None.

Problems Encountered/Corrective Action Taken:

None.

Recommendations:

*Due to well G0120 damage and unable to be sampled, the total 2021 annual OU1 LTM wells to be sampled will be reduced from 88 to 87 total.

Communication Notice This Week:

None.

Key Personnel Changes:

Kameron Daehling (AECOM) on site 5/24/21. Field personnel off site 5/26/21 and will resume field activities on 6/1/21.



Low-flow purging set up at on-post piezometer PZ001 in LL5 (facing east).



Sample collection at off-post monitoring well NW071 (facing south).

By: Ryan Herold **Title: Field Manager**

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	3
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	6/1/21 to 6/4/21
		Brice/AECOM On-site Hours	148
Project No.	60565355	**Subcontractor Hours**	25
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

AECOM/Brice Personnel on Site:

Ryan Herold, Bob Exceen, Jonathan Ortiz, Kameron Daehling, Dean Converse (AECOM); Gary Carson (Brice)

Subcontractors on Site:

Plains Environmental Services (PES) (Direct Push Subcontractor) - Jason Auernheimer

Visitors on Site:

Brian Fettin (USACE), Allie Grady (NDEE)

Summary of Work Performed:

-Contacted private land owners and informed them of the upcoming 2021 annual OU1/OU3 and OU1 Rebound Study/performance monitoring (PM) field activities. Completed utility locates prior to subsurface activities (week of 5/24/21).

-Mobilized to site, conducted initial health and safety meeting, prepped field equipment, and staked all direct push (DP) locations using hand-held GPS including: 3 off-site (screen point) locations - OS001, OS003, and NW050R (adjacent to MW cluster NW050); and 10 temporary PM wells for 2020 subsurface injections.

-Calibration (weekly) and calibration checks (daily) of field PIDs, water level indicators, and Aqua TROLL 500s.

CONTINUED 2021 ANNUAL OU1/OU3 LTM AND QUARTER #6 (Q6) OU1 REBOUND STUDY AND INJECTION PM SAMPLING ACTIVITIES:

-Collected 9 DP groundwater samples (screen point) at depths 25 feet, 35 feet, and 45 feet bgs (at locations OS001, OS003) and 20 feet, 35 feet, and 60 feet bgs (at location NW050R) for explosives+MNX (Method 8330A) analysis only (**OS001-DP06-25, OS001-DP06-35, OS001-DP06-45, OS003-DP06-25, OS003-DP06-35, OS003-DP06-45, NW050R-DP06-20, NW050R-DP06-35, NW050R-DP06-60**).

-Onsite, installed 10 temporary PM wells (1" PVC via DP technology) at 7 locations for 2020 subsurface injection PM. Each location included either a shallow well (A) (10-foot screen, 20 to 30 feet bgs) or a shallow intermediate well (B) (10-foot screen, 30-40 feet bgs), or both dependent upon location accordingly: EW7-PM21A, EW7-PM24A, EW7-PM25A/B, EW7-PM26A/B, EW7-PM27B, EW7-PM28A, and EW7-PM29A/B.

-Collected 6 of the 10 groundwater samples at temporary PM wells (**EW7-PM25A, PM25B, PM26A, PM26B, PM29A, PM29B**). Each PM temp well was developed prior to sample collection and sampled using low-flow groundwater sampling techniques with collection of field water quality parameters, and will be analyzed for explosives+MNX (Method 8330A) and water quality parameters including: TKN (351.2), NH3 (350.1), NO2/NO3 (353.2), SO4 (9056A), Alkalinity (2320B), Sulfide (9034), DOC (9060A), and Methane (RSK 175). CO2 will be back calculated from 2320B.

-IDW water (purge, develop., and decon.) from all sample locations were containerized in an IDW-labeled poly tank located at GWTF. At the completion of annual LTM/Q6 field activities, the IDW water will be sampled for site waste characterization analysis (Explosives+MNX and VOCs) prior to disposal or discharge to ground surface.

-All field and sampling activities were completed in accordance with the 2019 Final Addendum 3 UFP-QAPP, the 2018 Final Addendum 2 UFP-QAPP, and recommendations provided in the 2019 and 2020 Annual Groundwater Monitoring Reports and Draft OU1 Rebound Study Letter Report - Quarter 5 Event.

*Of the 87 annual OU1 LTM wells, 30 wells are included in the OU1 Rebound Study and 10 wells are included in the 2020 subsurface injection PM quarterly events (Q6).

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	3
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	6/1/21 to 6/4/21
		Brice/AECOM On-site Hours	148
Project No.	60565355	**Subcontractor Hours**	25
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

Percentage of Work Completed:

Mobilization, site-wide water level measurements, 87 of 87* annual OU1 LTM wells were sampled, 2 of 2 annual OU3 LTM wells were sampled, 9 of 9 off-post DP (screen point) groundwater samples were collected; 6 of 10 temporary PM wells were installed, developed, and sampled. Approximately 97% of the 2021 annual OU1/OU3 LTM and Q6 OU1 Rebound Study/injection PM sampling field work is now complete.

Schedule for Next Week:

Calibration of water quality equipment, complete Q6 temporary PM wells sampling and abandon all temp wells, and collect IDW water sample.

Health and Safety and Activities:

-Had the daily H&S meetings with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, potential exposure to explosives contamination, weather safety, slip-trip-falls, traffic hazards, direct push hazards and safety, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety.
-Completed equipment and vehicle safety checks.
-Completed Daily Tailgate Meeting Sheets and Daily Task Hazard Assessment Sheets.

Deviations from SOW and/or WP:

None.

Problems Encountered/Corrective Action Taken:

None.

Recommendations:

*Due to well G0120 damage and unable to be sampled, the total 2021 annual OU1 LTM wells to be sampled will be reduced from 88 to 87 total.

Communication Notice This Week:

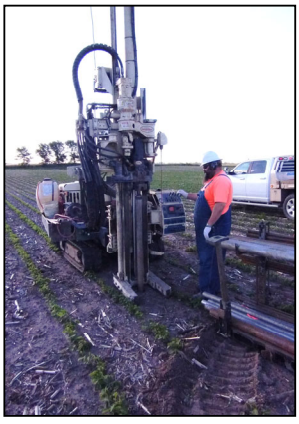
None.

Key Personnel Changes:

Brian Fettin, Allie Grady, Dean Converse, Gary Carson on-, off site 6/2/21. Jason Auernheimer off site 6/3/21.



Purging off-site DP location OS003 (facing south)



Installation of temporary PM wells: EW7-PM28A (shallow) (facing east)

By: Ryan Herold **Title: Field Manager**

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	4
Project	CHAAP - 2021 OU1/OU3 LTM,	**Date**	6/5/21 to 6/7/21
	OU1 RBStudy, PMs - Quarter #6	**Brice/AECOM On-site Hours**	37
Project No.	60565355	**Subcontractor Hours**	0
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

AECOM/Brice Personnel on Site:

Ryan Herold, Bob Exceen, Kameron Daehling (AECOM)

Subcontractors on Site:

None.

Visitors on Site:

None.

Summary of Work Performed:

-Contacted private land owners and informed them of the upcoming 2021 annual OU1/OU3 and OU1 Rebound Study/performance monitoring (PM) field activities. Completed utility locates prior to subsurface activities (week of 5/24/21).

-Mobilized to site, conducted initial health and safety meeting, prepped field equipment, and staked all direct push (DP) locations using hand-held GPS including: 3 off-site (screen point) locations - OS001, OS003, and NW050R (adjacent to MW cluster NW050); and 10 temporary PM wells for 2020 subsurface injections.

-Calibration (weekly) and calibration checks (daily) of field PIDs, water level indicators, and Aqua TROLL 500s.

CONTINUED 2021 ANNUAL OU1/OU3 LTM AND QUARTER #6 (Q6) OU1 REBOUND STUDY AND INJECTION PM SAMPLING ACTIVITIES:

-Collected 4 of the 10 groundwater samples at temporary PM wells (**EW7-PM21A, PM24A, PM27B, PM28A**). Each PM temp well was developed prior to sample collection and sampled using low-flow groundwater sampling techniques with collection of field water quality parameters, and will be analyzed for explosives+MNX (Method 8330A) and water quality parameters including: TKN (351.2), NH3 (350.1), NO2/NO3 (353.2), SO4 (9056A), Alkalinity (2320B), Sulfide (9034), DOC (9060A), and Methane (RSK 175). CO2 will be back calculated from 2320B.

-Abandoned all 10 temp. PM wells.

-IDW water (purge, develop., and decon.) from all sample locations were containerized in an IDW-labeled poly tank located at GWTF. At the completion of annual LTM/Q6 field activities, the IDW water was sampled (**WATER-WC-Q6-JUN21**) for site waste characterization analysis (Explosives+MNX and VOCs) prior to disposal or discharge to ground surface.

-All field and sampling activities were completed in accordance with the 2019 Final Addendum 3 UFP-QAPP, the 2018 Final Addendum 2 UFP-QAPP, and recommendations provided in the 2019 and 2020 Annual Groundwater Monitoring Reports and Draft OU1 Rebound Study Letter Report - Quarter 5 Event.

*Of the 87 annual OU1 LTM wells, 30 wells are included in the OU1 Rebound Study and 10 wells are included in the 2020 subsurface injection PM quarterly events (Q6).

Percentage of Work Completed:

Mobilization, site-wide water level measurements, 87 of 87* annual OU1 LTM wells were sampled, 2 of 2 annual OU3 LTM wells were sampled, 9 of 9 off-post DP (screen point) groundwater samples were collected; 10 of 10 temporary PM wells were installed, developed, sampled, and abandoned; collected IDW water waste characterization sample, completed site restoration activities, and demobilized from site. 100% of the 2021 annual OU1/OU3 LTM and Q6 OU1 Rebound Study/injection PM sampling field work is now complete.

WEEKLY REPORT

COE Project Manager	Brian Fettin	**Report No.**	4
Project	CHAAP - 2021 OU1/OU3 LTM, OU1 RBStudy, PMs - Quarter #6	**Date**	6/5/21 to 6/7/21
		Brice/AECOM On-site Hours	37
Project No.	60565355	**Subcontractor Hours**	0
Contract No.	Brice W9128F-18-D-0020		
Delivery Order No.	F0041		

Schedule for Next Week:
None.

Health and Safety and Activities:
-Had the daily H&S meetings with all personnel on site. All persons on site completed required paperwork/checklists and discussed sections of QAPP-APP/SSHP and H&S procedures including: PPE, potential exposure to explosives contamination, weather safety, slip-trip-falls, traffic hazards, direct push hazards and safety, and lifting hazards. Discussed route to hospital, severe weather procedures, farming activities, and trains and railroad track safety.
-Completed equipment and vehicle safety checks.
-Completed Daily Tailgate Meeting Sheets and Daily Task Hazard Assessment Sheets.

Deviations from SOW and/or WP:
None.

Problems Encountered/Corrective Action Taken:
None.

Recommendations:
*Due to well G0120 damage and unable to be sampled, the total 2021 annual OU1 LTM wells to be sampled will be reduced from 88 to 87 total.

Communication Notice This Week:
None.

Key Personnel Changes:
AECOM personnel demobilized from site on 6/7/21.



Development and purging of PM temp. wells EW7-PM25A/B (facing east)



Sample collection PM wells: EW7-PM24A (shallow)

By: Ryan Herold **Title: Field Manager**

SITE ACTIVITIES PHOTOGRAPHIC LOG

Field Activities: 2021 OU1/OU3 GROUNDWATER LTM Cornhusker Army Ammunition Plant, Nebraska	**USACE – Omaha District**	**Contract No. W9128F-18-D-0020 Delivery Order No. F0041**

Photograph No. 1

Description:

OU1/OU3 Groundwater Sampling

Water level measurement being taken at monitoring well G0048.

Date: 5/18/2021
Direction: north
Photographer: JO
Location: G0048



Photograph No. 2

Description:

OU1/OU3 Groundwater Sampling

Monitoring wells were purged, and groundwater samples were collected using low-flow techniques with submersible pumps. All purging and sample collection were completed in accordance with UFP-QAPP.

Date: 5/26/2021
Direction: south
Photographer: JO
Location: PZ020



SITE ACTIVITIES PHOTOGRAPHIC LOG

Field Activities: 2021 OU1/OU3 GROUNDWATER LTM Cornhusker Army Ammunition Plant, Nebraska	**USACE – Omaha District**	**Contract No. W9128F-18-D-0020 Delivery Order No. F0041**

Photograph No. 3

Description:

OU1/OU3 Groundwater Sampling

Groundwater samples were collected in laboratory-provided containers and analyzed for explosives + MNX (for OU1) or VOCs (for OU3) and laboratory MNA parameters by Eurofins-TestAmerica laboratory.

Date: 5/24/2021
Direction: southeast
Photographer: JO
Location: G0091



Photograph No. 4

Description:

OU1/OU3 Groundwater Sampling

Groundwater sample collection at OU1 off-post well location.

Date: 5/19/2021
Direction: south
Photographer: BE
Location: NW070



SITE ACTIVITIES PHOTOGRAPHIC LOG

Field Activities: 2021 OU1/OU3 GROUNDWATER LTM Cornhusker Army Ammunition Plant, Nebraska	**USACE – Omaha District**	**Contract No. W9128F-18-D-0020 Delivery Order No. F0041**

Photograph No. 5

Description:

OU1/OU3 Groundwater Sampling

Purging activities at OU1 on-post well location.

Date: 5/24/2021
Direction: east
Photographer: JO
Location: PZ001



Photograph No. 6

Description:

OU1/OU3 Groundwater Sampling

The pump and water level meter were decontaminated after every well.

Date: 5/24/2021
Direction: north
Photographer: JO
Location: G0091



SITE ACTIVITIES PHOTOGRAPHIC LOG

Field Activities: 2021 OU1/OU3 GROUNDWATER LTM Cornhusker Army Ammunition Plant, Nebraska	**USACE – Omaha District**	**Contract No. W9128F-18-D-0020 Delivery Order No. F0041**

Photograph No. 7

Description:

OU1/OU3 Groundwater Sampling

All decontamination and purge IDW water from sampling activities were collected in field poly tanks, transferred to an IDW tank at GWTF, and sampled at conclusion of event for explosives + MNX and VOCs analysis.

Date: 5/26/2021
Direction: north
Photographer: BE
Location: GWTF



Photograph No. 8

Description:

OU1/OU3 Groundwater Sampling

Groundwater samples packed in coolers with wet ice (to achieve a cooler temperature of approximately 6°C or less) and shipped to Eurofins-TestAmerica Laboratory (Denver, CO) via FedEx priority overnight.

Date: 5/24/2021
Direction: -
Photographer: BE
Location: GWTF



Included electronically only on enclosed CD.

APPENDIX E

Summary of Present and Historical Analytical Results and Figures

Included electronically only on enclosed CD.

Key for Appendix E Tables:

General Terms

µg/L	micrograms per liter
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID	identification number
mg/L	milligrams per liter
MNX	mono-nitroso-RDX
NA	Not analyzed
NRL	No reporting limit
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RL	Reporting limit (in µg/L or mg/L, as defined in table)
RSK	Robert S. Kerr Environmental Research Laboratory
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VOC	volatile organic compounds

Qualification Terms

*	Reanalyzed sample result
E	Reported result is above calibration range
J	Estimated detection
Qual	Qualification
R	Rejected data
UJ	Not detected; RL is an estimate

UW51, UW33, UW32, UW14, and UW01 denote USACE/THAMA explosives methods replaced by modified SW-846 Method 8330 (M8330); methods D1, 6N, 99, and 3S are obsolete explosives analytical methods superseded by M8330.

APPENDIX E

Summary of Present and Historical Analytical Results and Figures

E.1 Explosives (on enclosed CD)

- E.1.1 OU1 ON-POST G00 WELLS
- E.1.2 OU1 ON-POST PZ WELLS
- E.1.3 OU1 OFF-POST CA WELLS
- E.1.4 OU1 OFF-POST NW WELLS
- E.1.5 OU1 OFF-POST FEEDLOT WELLS

E.1 Explosives

E.1.1 OU1 ON-POST G00 WELLS

WELL	TABLE
G0011	E.1.1-1
G0012	E.1.1-2
G0013	E.1.1-3
G0014	E.1.1-4
G0015	E.1.1-5
G0016	E.1.1-6
G0017	E.1.1-7
G0018	E.1.1-8
G0019	E.1.1-9
G0020	E.1.1-10
G0021	E.1.1-11
G0022	E.1.1-12
G0023	E.1.1-13
G0024	E.1.1-14
G0025	E.1.1-15
G0026	E.1.1-16
G0027	E.1.1-17
G0028	E.1.1-18
G0029	E.1.1-19
G0030	E.1.1-20
G0031	E.1.1-21
G0032	E.1.1-22
G0033	E.1.1-23
G0042	E.1.1-24
G0043	E.1.1-25
G0044	E.1.1-26
G0045	E.1.1-27
G0046	E.1.1-28
G0047	E.1.1-29
G0048	E.1.1-30
G0049	E.1.1-31
G0052	E.1.1-32
G0063	E.1.1-33
G0066/G0066R	E.1.1-34
G0067	E.1.1-35
G0068	E.1.1-36
G0070	E.1.1-37
G0075	E.1.1-38
G0076	E.1.1-39
G0077	E.1.1-40

WELL	TABLE
G0078	E.1.1-41
G0079	E.1.1-42
G0080	E.1.1-43
G0081	E.1.1-44
G0082	E.1.1-45
G0083	E.1.1-46
G0084	E.1.1-47
G0085	E.1.1-48
G0086	E.1.1-49
G0087	E.1.1-50
G0088	E.1.1-51
G0089	E.1.1-52
G0090	E.1.1-53
G0091	E.1.1-54
G0092	E.1.1-55
G0093	E.1.1-56
G0094	E.1.1-57
G0095	E.1.1-58
G0096	E.1.1-59
G0097	E.1.1-60
G0098	E.1.1-61
G0099	E.1.1-62
G0100	E.1.1-63
G0101	E.1.1-64
G0102	E.1.1-65
G0103	E.1.1-66
G0104	E.1.1-67
G0105	E.1.1-68
G0106	E.1.1-69
G0107	E.1.1-70
G0108	E.1.1-71
G0109	E.1.1-72
G0110	E.1.1-73
G0111	E.1.1-74
G0112	E.1.1-75
G0113	E.1.1-76
G0114	E.1.1-77
G0115	E.1.1-78
G0116	E.1.1-79
G0117	E.1.1-80

WELL	TABLE
G0118	E.1.1-81
G0119	E.1.1-82
G0120	E.1.1-83
G0121	E.1.1-84
G0122	E.1.1-85
G0123	E.1.1-86

TABLE E.1.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-EXPLOSIVES

FIELD ID			G0011			G0011			G0011			G0011			G0011			G0011			G0011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/11/2013			3/5/2012			3/3/2011			3/1/2010			3/6/2009			3/12/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22				<	0.8	U	<	0.8	U	<	0.8	U	<	1.1	U	<	0.48	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 22				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 22				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 22				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 22	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.49	U
2-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 16				<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.49	U
4-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	1.1	U	<	0.48	U	<	0.49	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.48	U	<	0.49	U
HMX	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
Nitrobenzene	-	0 / 22				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.49	U
RDX	0.8	1 / 22				<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.49	U
Tetryl	-	0 / 18				<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-EXPLOSIVES

FIELD ID			G0011			G0011			G0011			G0011			G0011			G0011			G0011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2007			3/29/2006			3/21/2005			3/16/2004			3/21/2003			3/21/2002			3/28/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.24	U	<	0.34	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.24	U	<	0.22	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.24	U	<	0.28	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.22	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.87	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.35	U	<	0.8	U
2-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.69	U	<	0.8	U
3-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.43	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.59	U	<	0.8	U
4-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.53	U	<	0.75	U	<	1.4	U	<	0.8	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.17	U		NA			NA			NA	
HMX	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.42	U	<	0.58	U	<	0.95	U	<	1	U
Nitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.24	U	<	0.39	U	<	0.8	U
RDX	0.8	1 / 22	0.8	0.48		<	0.48	U	<	0.48	U	<	0.17	U	<	0.24	U	<	0.56	U	<	0.8	U
Tetryl	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.33	U	<	0.46	U	<	0.92	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-EXPLOSIVES

FIELD ID			G0011			G0011			G0011			G0011			G0011			G0011			G0011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	3/20/2000			3/26/1999			6/23/1998			7/11/1994			6/7/1994			10/5/1992			8/18/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	1.0	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.5	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 22	<	1.5	U	<	0.8	U	<	1.0	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 22	<	1.1	U	<	0.8	U	<	0.5	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 22	<	1.1	U	<	0.8	U	<	0.5	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	1	U	<	0.8	U	<	0.5	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.0	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.0	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	1	U	<	0.8	U	<	1.0	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.0	U		NA			NA			NA			NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 21	<	0.8	U	<	0.8	U	<	0.5	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.5	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	0.8	1 / 22	<	0.8	U	<	0.8	U	<	1.0	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 18	<	1.3	U	<	0.8	U	<	0.5	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-EXPLOSIVES

FIELD ID			G0011			G0011		
METHOD	Maximum	Detection	UW01			6N		
COLLECT DATE	Detection	Frequency	11/8/1988			1/8/1982		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 22	<	0.56	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 22	<	0.61	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.78	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 22	<	0.6	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 22	<	0.55	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 20		NA			NA	
2-Nitrotoluene	-	0 / 16		NA			NA	
3-Nitrotoluene	-	0 / 16		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16		NA			NA	
4-Nitrotoluene	-	0 / 16		NA			NA	
MNX	-	0 / 10		NA			NA	
HMX	-	0 / 21	<	1.3	U		NA	
Nitrobenzene	-	0 / 22	<	1.13	U	<	2.1	U
RDX	0.8	1 / 22	<	0.63	U	<	9.6	U
Tetryl	-	0 / 18		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0012-EXPLOSIVES

FIELD ID			G0012			G0012			G0012			G0012			G0012			G0012			G0012		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/11/2013			3/5/2012			3/7/2011			3/1/2010			3/6/2009			3/12/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20				<	0.8	UJ	<	0.8	U	<	0.8	U	<	1	U	<	0.5	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 20				<	0.8	UJ	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 20				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 19				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 20	**Abandoned**			<	0.8	UJ	<	0.8	U	<	0.8	U	<	0.21	U	<	0.5	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 19	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.5	U	<	0.48	U
2-Nitrotoluene	-	0 / 16				<	0.8	UJ	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
3-Nitrotoluene	-	0 / 16				<	0.8	UJ	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 16				<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.5	U	<	0.48	U
4-Nitrotoluene	-	0 / 16				<	0.8	UJ	<	0.8	U	<	0.8	U	<	1	U	<	0.5	U	<	0.48	U
HMX	-	0 / 19				<	0.8	UJ	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	UJ	<	0.48	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.5	U	<	0.48	U
Nitrobenzene	-	0 / 20				<	0.8	UJ	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
RDX	-	0 / 20				<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.5	U	<	0.48	U
Tetryl	-	0 / 18				<	1.6	UJ	<	0.8	U	<	0.8	U	<	0.25	U	<	0.5	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0012-EXPLOSIVES

FIELD ID			G0012			G0012			G0012			G0012			G0012			G0012			G0012		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2007			3/29/2006			3/22/2005			3/17/2004			3/24/2003			3/25/2002			3/27/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.3	U	<	0.34	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.3	U	<	0.23	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.3	U	<	0.28	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 19	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.23	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.88	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 19	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.35	U	<	0.8	U
2-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.69	U	<	0.8	U
3-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.44	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.6	U	<	0.8	U
4-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.93	U	<	1.4	U	<	0.8	U
HMX	-	0 / 19	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.72	U	<	0.96	U	<	1	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U		NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.3	U	<	0.4	U	<	0.8	U
RDX	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.3	U	<	0.57	U	<	0.8	U
Tetryl	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.57	U	<	0.94	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0012-EXPLOSIVES

FIELD ID			G0012			G0012			G0012			G0012			G0012			G0012			G0012		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32			6N		
COLLECT DATE	Detection	Frequency	3/17/2000			3/29/1999			6/23/1998			7/12/1994			6/15/1994			8/24/1992			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	1	U	<	0.425	U	<	0.425	U	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.5	U	<	0.549	U	<	0.549	U	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 20	<	1.5	U	<	0.8	U	<	1	U	<	0.451	U	<	0.451	U	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 19	<	1.1	U	<	0.8	U	<	0.5	U	<	0.26	U	<	0.26	U	<	0.064	U		NA	
2,6-Dinitrotoluene	-	0 / 20	<	1.1	U	<	0.8	U	<	0.5	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 19	<	1	U	<	0.8	U	<	0.5	U	<	0.244	U	<	0.244	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	1	U	<	0.8	U	<	1	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1	U		NA			NA			NA			NA	
HMX	-	0 / 19	<	0.8	U	<	0.8	U	<	0.5	U	<	0.563	U	<	0.563	U	<	1.21	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.5	U	<	0.817	U	<	0.817	U	<	0.645	U	<	2.1	U
RDX	-	0 / 20	<	0.8	U	<	0.8	U	<	1	U	<	0.412	U	<	0.412	U	<	1.17	U	<	9.6	U
Tetryl	-	0 / 18	<	1.3	U	<	0.8	U	<	0.5	U	<	3.26	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013-EXPLOSIVES

FIELD ID			G0013			G0013			G0013			G0013			G0013			G0013			G0013		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/12/2013			None			3/13/2008			3/14/2007			3/28/2006			3/21/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	0.17 J	1 / 24				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			<	0.8	U	**Not Sampled**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	**2013**			<	0.8	U	**in 2009, 2010, 2011,**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	**2012**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
HMX	-	0 / 19				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 21				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
RDX	1.29	2 / 24				<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 16				<	1.6	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013-EXPLOSIVES

FIELD ID			G0013			G0013			G0013			G0013			G0013			G0013			G0013		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/17/2004			3/21/2003			3/25/2002			3/28/2001			3/17/2000			3/29/1999			6/23/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.25	U	<	0.21	U	<	0.31	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
1,3-Dinitrobenzene	-	0 / 21	<	0.25	U	<	0.21	U	<	0.21	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.5	U
2,4,6-Trinitrotoluene	0.17 J	1 / 24	0.17	0.25	J	<	0.21	U	<	0.26	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1	U
2,4-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.41	U	<	0.21	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.41	U	<	0.81	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	<	0.49	U	<	0.41	U	<	0.33	U	<	0.8	U	<	1	U	<	0.8	U	<	0.5	U
2-Nitrotoluene	-	0 / 12	<	0.49	U	<	0.41	U	<	0.64	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1	U
3-Nitrotoluene	-	0 / 12	<	0.49	U	<	0.41	U	<	0.40	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	0.49	U	<	0.41	U	<	0.55	U	<	0.8	U	<	1	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 12	<	0.79	U	<	0.67	U	<	1.3	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1	U
HMX	-	0 / 19	<	0.62	U	<	0.52	U	<	0.88	U	<	1	U	<	0.8	U	<	0.8	U	<	0.5	U
MNX	-	0 / 6	<	0.25	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.25	U	<	0.21	U	<	0.36	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.5	U
RDX	1.29	2 / 24	<	0.25	U	<	0.21	U	<	0.52	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
Tetryl	-	0 / 16	<	0.49	U	<	0.41	U	<	0.86	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013-EXPLOSIVES

FIELD ID			G0013			G0013			G0013			G0013			G0013			G0013			G0013		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW14			UW14			UW01			UW01		
COLLECT DATE	Detection	Frequency	7/12/1994			6/15/1994			8/24/1992			10/15/1990			4/23/1990			5/15/1989			11/8/1988		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.425	U	<	0.425	U	<	0.449	U	<	0.626	U	<	0.626	U	<	0.56	U	<	0.56	U
1,3-Dinitrobenzene	-	0 / 21	<	0.549	U	<	0.549	U	<	0.611	U	<	0.519	U	<	0.519	U	<	0.61	U	<	0.61	U
2,4,6-Trinitrotoluene	0.17 J	1 / 24	<	0.451	U	<	0.451	U	<	0.635	U	<	0.588	U	<	0.588	U	<	0.78	U	<	0.78	U
2,4-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.26	U	<	0.064	U	<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.26	U	<	0.074	U	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	<	0.244	U	<	0.244	U	<	0.158	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 19	<	0.563	U	<	0.563	U	<	1.21	U	<	1.65	U	<	1.65	U	<	1.3	U	<	1.3	U
MNX	-	0 / 6		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.817	U	<	0.817	U	<	0.645	U	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U
RDX	1.29	2 / 24	<	0.412	U	<	0.412	U	<	1.17	U	<	2.11	U	<	2.11	U	1.29	NRL		0.68	NRL	
Tetryl	-	0 / 16	<	1.18	U	<	1.18	U		NA		<	0.556	U	<	0.556	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013-EXPLOSIVES

FIELD ID			G0013			G0013			G0013			G0013			G0013		
METHOD	Maximum	Detection	D1			D1			D1			6N			6N		
COLLECT DATE	Detection	Frequency	12/4/1984			6/18/1985			9/18/1984			1/18/1983			1/8/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.5	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 21		NA			NA			NA		<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	0.17 J	1 / 24	<	1.9	U	<	1.9	U	<	0.9	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 24	<	1.2	U	<	0.6	U	<	0.6	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 24	<	1.2	U	<	1.2	U	<	0.6	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 15		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
HMX	-	0 / 19		NA			NA			NA			NA			NA	
MNX	-	0 / 6		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21		NA			NA			NA		<	2.1	U	<	2.1	U
RDX	1.29	2 / 24	<	9	U	<	7	U	<	9	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 16		NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014-EXPLOSIVES

FIELD ID			G0014			G0014			G0014			G0014			G0014			G0014			G0014		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/8/2013			3/5/2012			None			3/14/2007			3/29/2006			3/23/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	5.8	1 / 24				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	4.2	3 / 24				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.50	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	3.25	1 / 15	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010,**			<	0.50	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	**2011**			<	0.50	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.22 J	1 / 12				<	1.4	U	<	1.4	U				<	0.50	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
HMX	2.01	2 / 19				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
RDX	-	0 / 24				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 16				<	1.6	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014-EXPLOSIVES

FIELD ID			G0014			G0014			G0014			G0014			G0014			G0014			G0014		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/17/2004			3/21/2003			3/25/2002			3/28/2001			3/17/2000			3/29/1999			6/23/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	5.8	1 / 24	<	0.23	U	<	0.31	U	<	0.31	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 21	<	0.23	U	<	0.31	U	<	0.21	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	4.2	3 / 24	0.24	0.23		<	0.31	U	0.20	0.26	J	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 24	<	0.45	U	<	0.59	U	<	0.21	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.45	U	<	0.59	U	<	0.81	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	3.25	1 / 15	<	0.45	U	<	0.59	U	<	0.33	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	0.45	U	<	0.59	U	<	0.64	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	0.45	U	<	0.59	U	<	0.40	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	0.22 J	1 / 12	<	0.45	U	<	0.59	U	<	0.55	U	0.22	0.8	J	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	0.73	U	<	0.96	U	<	1.3	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	2.01	2 / 19	<	0.57	U	<	0.75	U	<	0.88	U	<	1	U	<	0.8	U	<	0.8	U	0.941	0.500	J
MNX	-	0 / 6	<	0.23	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.23	U	<	0.31	U	<	0.36	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 24	<	0.23	U	<	0.31	U	<	0.52	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 16	<	0.45	U	<	0.59	U	<	0.86	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014-EXPLOSIVES

FIELD ID			G0014			G0014			G0014			G0014			G0014			G0014			G0014			G0014		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW14			UW14			UW01			UW01					
COLLECT DATE	Detection	Frequency	7/12/1994			6/15/1994			8/24/1992			10/15/1990			4/23/1990			5/15/1989			11/8/1988					
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
EXPLOSIVES (µg/L)																										
1,3,5-Trinitrobenzene	5.8	1 / 24	<	0.425	U	<	0.425	U	<	0.449	U	<	0.626	U	<	0.626	U	5.8	NRL		<	2.8	U			
1,3-Dinitrobenzene	-	0 / 21	<	0.549	U	<	0.549	U	<	0.611	U	<	0.519	U	<	0.519	U	<	0.61	U	<	0.61	U			
2,4,6-Trinitrotoluene	4.2	3 / 24	<	0.451	U	<	0.451	U	<	0.635	U	<	0.588	U	<	0.588	U	<	0.78	U	<	0.78	U			
2,4-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.26	U	<	0.064	U	<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U			
2,6-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.26	U	<	0.074	U	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U			
2-Amino-4,6-dinitrotoluene	3.25	1 / 15	<	0.244	U	<	0.244	U	3.25	NRA			NA			NA			NA			NA				
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA				
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA				
4-Amino-2,6-dinitrotoluene	0.22 J	1 / 12		NA			NA			NA			NA			NA			NA			NA				
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA			NA			NA				
HMX	2.01	2 / 19	2.01	NRL		<	0.563	U	<	1.21	U	<	1.65	U	<	1.65	U	<	1.3	U	<	1.3	U			
MNX	-	0 / 6		NA			NA			NA			NA			NA			NA			NA				
Nitrobenzene	-	0 / 21	<	0.817	U	<	0.817	U	<	0.645	U	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U			
RDX	-	0 / 24	<	0.412	U	<	0.412	U	<	1.17	U	<	2.11	U	<	2.11	U	<	1.25	U	<	0.63	U			
Tetryl	-	0 / 16	<	1.18	U	<	1.18	U		NA		<	0.556	U	<	0.556	U		NA			NA				

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014-EXPLOSIVES

FIELD ID			G0014			G0014			G0014			G0014			G0014		
METHOD	Maximum	Detection	D1			D1			D1			6N			6N		
COLLECT DATE	Detection	Frequency	6/19/1985			12/4/1984			9/18/1984			1/15/1983			1/8/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	5.8	1 / 24	<	1.4	U	<	1.4	U	<	0.5	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 21		NA			NA			NA		<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	4.2	3 / 24	4.2	NRL		<	1.9	U	<	0.9	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 24	<	0.6	U	<	1.2	U	<	0.6	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 24	<	1.2	U	<	1.2	U	<	0.6	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	3.25	1 / 15		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	0.22 J	1 / 12		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
HMX	2.01	2 / 19		NA			NA			NA			NA			NA	
MNX	-	0 / 6		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21		NA			NA			NA		<	2.1	U	<	2.1	U
RDX	-	0 / 24	<	7	U	<	9	U	<	9	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 16		NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-EXPLOSIVES

FIELD ID			G0015			G0015			G0015			G0015			G0015			G0015			G0015		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/12/2013			3/8/2012			3/9/2011			3/1/2010			3/11/2009			3/13/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.5	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
2,4,6-Trinitrotoluene	1.23	1 / 24				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.5	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.095 J	1 / 19	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	0.095	0.2	J	<	0.5	U	<	0.48	U
2-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
3-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 16				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.5	U	<	0.48	U
4-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.5	U	<	0.48	U
HMX	-	0 / 19				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.5	U	<	0.48	U
Nitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.5	U	<	0.48	U
RDX	-	0 / 24				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.5	U	<	0.48	U
Tetryl	-	0 / 18				<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.5	UJ	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-EXPLOSIVES

FIELD ID			G0015			G0015			G0015			G0015			G0015			G0015			G0015		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2007			3/28/2006			3/17/2005			3/23/2004			3/20/2003			3/26/2002			3/27/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.25	U	<	0.33	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.25	U	<	0.22	U	<	0.8	U
2,4,6-Trinitrotoluene	1.23	1 / 24	<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.25	U	<	0.28	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.22	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.86	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	0.095 J	1 / 19	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.35	U	<	0.8	U
2-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.68	U	<	0.8	U
3-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.43	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.58	U	<	0.8	U
4-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.7	U	<	0.78	U	<	1.4	U	<	0.8	U
HMX	-	0 / 19	<	0.49	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.61	U	<	0.94	U	<	1	U
MNX	-	0 / 10	<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U		NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.25	U	<	0.39	U	<	0.8	U
RDX	-	0 / 24	<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.25	U	<	0.55	U	<	0.8	U
Tetryl	-	0 / 18	<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.49	U	<	0.91	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-EXPLOSIVES

FIELD ID			G0015			G0015			G0015			G0015			G0015			G0015			G0015		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32			D1		
COLLECT DATE	Detection	Frequency	3/20/2000			3/29/1999			6/23/1998			7/17/1994			6/11/1994			8/18/1992			6/18/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U	<	1.4	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U		NA	
2,4,6-Trinitrotoluene	1.23	1 / 24	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U	1.23	NRL	
2,4-Dinitrotoluene	-	0 / 24	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 24	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	0.095 J	1 / 19	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
HMX	-	0 / 19	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U		NA	
RDX	-	0 / 24	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U	<	7	U
Tetryl	-	0 / 18	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-EXPLOSIVES

FIELD ID			G0015			G0015			G0015			G0015		
METHOD	Maximum	Detection	D1			D1			6N			6N		
COLLECT DATE	Detection	Frequency	12/4/1984			9/18/1984			1/18/1983			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 24	<	1.4	U	<	0.5	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 21		NA			NA		<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	1.23	1 / 24	<	1.9	U	<	0.9	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 24	<	1.2	U	<	0.6	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 24	<	1.2	U	<	0.6	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	0.095 J	1 / 19		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 16		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 16		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 16		NA			NA			NA			NA	
HMX	-	0 / 19		NA			NA			NA			NA	
MNX	-	0 / 10		NA			NA			NA			NA	
Nitrobenzene	-	0 / 21		NA			NA		<	2.1	U	<	2.1	U
RDX	-	0 / 24	<	9	U	<	9	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 18		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-EXPLOSIVES

FIELD ID			G0016			G0016			G0016			G0016			G0016			G0016			G0016		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/8/2013			3/7/2012			3/9/2011			3/3/2010			3/11/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	78	4 / 31							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 28							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	63	19 / 31							0.64	0.8	J	0.2	0.8	J	<	0.8	U	0.19	0.4	J	<	0.48	U
2,4-Dinitrotoluene	3.29	7 / 31							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 31	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	36 J	20 / 20	**2016**			**in 2014, 2015, 2016**			10.8	0.8		12.8	0.8		21.2	0.8		14	0.2		9	0.48	
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	10	16 / 17							3.5	1.4		2.9	1.4		2.9	0.8		2	0.2		1.2	0.48	
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	6.5	4 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 28							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	4.81	9 / 31							<	0.8	U	<	0.8	UJ	1	0.8		<	0.2	U	<	0.48	U
Tetryl	-	0 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-EXPLOSIVES

FIELD ID			G0016			G0016			G0016			G0016			G0016			G0016			G0016		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2008			3/14/2007			3/28/2006			3/17/2005			3/17/2004			3/20/2003			3/26/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	78	4 / 31	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	0.13	0.24	J	<	0.2	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 28	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.24	U	<	0.2	U	<	0.16	U
2,4,6-Trinitrotoluene	63	19 / 31	0.6	0.48		0.74	0.5		1.3	0.48		1.9	0.48		3.6	0.24		2.8	0.2		2.8	0.20	J
2,4-Dinitrotoluene	3.29	7 / 31	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.38	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 31	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.38	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	36 J	20 / 20	15	0.48		11	0.5		15	0.48		20	0.48	P	26	2.3		32	3.8		36	2.5	J
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.38	U	<	0.49	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.38	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	10	16 / 17	2.2	0.48		2.5	0.5		4.1	0.48		7.5	0.48		8.4	0.46		7.3	0.38		9.5	0.42	J
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.62	U	<	1.0	U
HMX	6.5	4 / 25	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	0.46	0.58	J	<	0.48	U	<	0.68	U
MNX	-	0 / 10	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.24	U		NA			NA	
Nitrobenzene	-	0 / 28	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.24	U	<	0.2	U	<	0.28	U
RDX	4.81	9 / 31	<	0.48	U	<	0.5	U	<	0.48	U	0.52	0.48	P	1.3	0.24		0.73	0.2		0.86	0.40	J
Tetryl	-	0 / 22	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.38	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-EXPLOSIVES

FIELD ID			G0016			G0016			G0016			G0016			G0016			G0016			G0016		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/27/2001			3/21/2000			3/31/1999			6/26/1998			10/4/1997			7/17/1994			6/11/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	78	4 / 31	<	0.8	U	<	0.8	U	<	0.8	U	<	1.0	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.50	U	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	63	19 / 31	<	0.8	U	0.89	1.5	J	<	0.8	U	<	1.0	U	0.92	0.29		0.97	NRL		1.02	NRL	
2,4-Dinitrotoluene	3.29	7 / 31	<	0.8	U	<	1.1	U	<	0.8	U	<	0.50	U	0.55	0.233		<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 31	<	0.8	U	<	1.1	U	<	0.8	U	<	0.50	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	36 J	20 / 20	35	4		31	10		32.9	4		26.1	0.50	U	29.6	0.173		31.0	NRL		28.0	NRL	
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.0	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.0	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	10	16 / 17	10	0.8		10	1		6.47	0.8		<	1.0	U	8.14	0.309			NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.0	U	<	0.368	U		NA			NA	
HMX	6.5	4 / 25	<	1	U	<	0.8	U	<	0.8	U	0.7	0.50	U	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.50	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	4.81	9 / 31	0.51	0.8	J	<	0.8	U	<	0.8	U	<	1.0	U	<	0.558	U	<	0.879	U	<	0.412	U
Tetryl	-	0 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.50	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-EXPLOSIVES

FIELD ID			G0016			G0016			G0016			G0016			G0016			G0016			G0016		
METHOD	Maximum	Detection	UW32			UW14			UW14			UW14			UW01			UW01			D1		
COLLECT DATE	Detection	Frequency	8/18/1992			8/22/1992			10/15/1990			4/23/1990			5/15/1989			11/8/1988			6/19/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	78	4 / 31	78	NRL		<	0.626	U	1.57	NRL		1.98	NRL		<	0.56	U	<	1.12	U	<	1.4	U
1,3-Dinitrobenzene	-	0 / 28	<	0.611	U	<	0.519	U	<	0.519	U	<	0.519	U	<	0.61	U	<	0.61	U		NA	
2,4,6-Trinitrotoluene	63	19 / 31	12.2	NRL		<	0.588	U	<	0.588	U	<	0.588	U	63	NRL		<	0.98	U	6.92	NRL	
2,4-Dinitrotoluene	3.29	7 / 31	<	0.064	U	<	0.612	U	<	0.612	U	<	0.612	U	2.03	NRL		1.47	NRL		<	0.6	U
2,6-Dinitrotoluene	-	0 / 31	<	0.074	U	<	1.15	U	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	36 J	20 / 20	5.96	NRA			NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	10	16 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	6.5	4 / 25	2.78	NRL		<	1.65	U	<	1.65	U	<	1.65	U	6.5	NRL		<	1.3	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.645	U	<	1.07	U	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U		NA	
RDX	4.81	9 / 31	4.81	NRL		<	2.11	U	<	2.11	U	<	2.11	U	1.99	NRL		1.01	NRL		<	7	U
Tetryl	-	0 / 22		NA		<	0.556	U	<	0.556	U	<	0.556	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-EXPLOSIVES

FIELD ID			G0016			G0016			G0016			G0016			G0016		
METHOD	Maximum	Detection	D1			D1			6N			6N			6N		
COLLECT DATE	Detection	Frequency	12/4/1984			9/18/1984			11/3/1983			1/15/1983			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	78	4 / 31	<	1.4	U	<	0.5	U	<	3.5	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 28		NA			NA		<	3.9	U	<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	63	19 / 31	<	1.9	U	<	0.9	U	<	3.5	U	1.53	NRL		1.58	NRL	
2,4-Dinitrotoluene	3.29	7 / 31	<	1.2	U	3	NRL		2.59	NRL		1.74	NRL		3.29	NRL	
2,6-Dinitrotoluene	-	0 / 31	<	1.2	U	<	0.6	U	<	4.2	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	36 J	20 / 20		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	10	16 / 17		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
HMX	6.5	4 / 25		NA			NA			NA			NA			NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28		NA			NA		<	4.8	U	<	2.1	U	<	2.1	U
RDX	4.81	9 / 31	<	9	U	<	9	U	<	16	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 22		NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017					G0017					G0017					G0017				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/11/2020					6/5/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	62	25 / 39	<	UJ	0.089	0.21	0.22	<	U	0.088	0.21	0.22	<	U	0.2	0.39	0.98	<	UJ	0.032	0.1	0.16
1,3-Dinitrobenzene	6.44	1 / 36	<	UJ	0.039	0.11	0.12	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	UJ	0.052	0.1	0.16
2,4,6-Trinitrotoluene	26	25 / 39	<	UJ	0.047	0.11	0.12	<	U	0.047	0.11	0.12	<	U	0.16	0.39	0.39	<	UJ	0.052	0.1	0.16
2,4-Dinitrotoluene	0.26 J	2 / 39	<	UJ	0.029	0.084	0.11	<	U	0.029	0.084	0.11	<	U	0.082	0.2	0.39	<	UJ	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 39	<	UJ	0.042	0.084	0.11	<	U	0.042	0.084	0.11	<	U	0.063	0.2	0.2	<	UJ	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	35	16 / 28	0.066	J	0.053	0.11	0.12	<	U	0.053	0.11	0.12	<	U	0.05	0.12	0.2	<	UJ	0.031	0.1	0.16
2-Nitrotoluene	0.34 J	1 / 24	<	UJ	0.09	0.21	0.22	<	U	0.09	0.21	0.22	<	UJ	0.084	0.2	0.39	<	UJ	0.092	0.21	0.52
3-Nitrotoluene	0.45 J	1 / 24	<	UJ	0.21	0.42	0.42	<	U	0.2	0.42	0.42	<	U	0.19	0.39	0.39	0.45	J	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	4.6	13 / 24	<	UJ	0.061	0.13	0.16	<	U	0.061	0.13	0.16	<	U	0.057	0.12	0.2	<	UJ	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.11	0.42	0.43	<	U	0.11	0.42	0.43	<	U	0.2	0.39	0.98	<	UJ	0.092	0.21	0.52
HMX	14.7	13 / 32	<	UJ	0.092	0.21	0.22	<	U	0.092	0.21	0.22	<	U	0.086	0.2	0.39	<	UJ	0.029	0.1	0.16
MNX	1.4	1 / 18	<	UJ	0.16	0.42	2.1	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	<	UJ	0.037	0.1	0.52
Nitrobenzene	-	0 / 36	<	UJ	0.096	0.21	0.22	<	U	0.096	0.21	0.22	<	U	0.089	0.2	0.39	<	UJ	0.052	0.1	0.16
RDX	116	26 / 40	<	UJ	0.054	0.21	0.22	<	U	0.054	0.21	0.22	<	U	0.15	0.39	0.39	<	UJ	0.037	0.1	0.16
Tetryl	0.26 J	1 / 29	<	UJ	0.034	0.11	0.12	0.26	J	0.033	0.11	0.12	<	U	0.078	0.2	0.24	<	UJ	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017					G0017					G0017					G0017		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/8/2016					8/6/2015					8/7/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	62	25 / 39	<	UJ	0.034	0.11	0.16	<	0.23	0.46	1.2	U	<	0.21	0.42	1.1	UJ	<	1.6	UJ
1,3-Dinitrobenzene	6.44	1 / 36	<	UJ	0.054	0.11	0.16	<	0.1	0.23	0.46	U	<	0.094	0.21	0.42	UJ	<	0.63	UJ
2,4,6-Trinitrotoluene	26	25 / 39	<	UJ	0.054	0.11	0.16	<	0.084	0.23	0.46	U	<	0.077	0.21	0.42	UJ	<	0.63	UJ
2,4-Dinitrotoluene	0.26 J	2 / 39	<	UJ	0.054	0.11	0.14	<	0.097	0.23	0.46	U	<	0.089	0.21.	0.42	UJ	<	0.63	UJ
2,6-Dinitrotoluene	-	0 / 39	<	UJ	0.054	0.11	0.14	<	0.075	0.23	0.23	U	<	0.068	0.21	0.21	UJ	<	0.32	UJ
2-Amino-4,6-dinitrotoluene	35	16 / 28	<	UJ	0.032	0.11	0.16	<	0.059	0.14	0.23	U	<	0.054	0.13	0.21	UJ	<	0.32	UJ
2-Nitrotoluene	0.34 J	1 / 24	<	UJ	0.095	0.22	0.54	<	0.099	0.23	0.46	U	<	0.091	0.21	0.42	UJ	<	0.63	UJ
3-Nitrotoluene	0.45 J	1 / 24	<	UJ	0.062	0.22	0.54	<	0.097	0.23	0.46	U	<	0.089	0.21	0.42	UJ	<	0.63	UJ
4-Amino-2,6-dinitrotoluene	4.6	13 / 24	<	UJ	0.054	0.11	0.16	<	0.067	0.14	0.23	U	<	0.061	0.13	0.21	UJ	0.37	0.32	J
4-Nitrotoluene	-	0 / 24	<	UJ	0.095	0.22	0.54	<	0.23	0.46	1.2	U	<	0.210	0.21	1.1	UJ	<	1.6	UJ
HMX	14.7	13 / 32	<	UJ	0.039	0.11	0.16	<	0.1	0.23	0.46	U	<	0.093	0.21	0.42	UJ	<	0.63	UJ
MNX	1.4	1 / 18	<	UJ	0.030	0.11	0.54	<	0.42	0.42	2.3	U	<	0.38	0.38	2.1	UJ	<	3.2	UJ
Nitrobenzene	-	0 / 36	<	UJ	0.054	0.11	0.16	<	0.11	0.23	0.46	U	<	0.097	0.21	0.42	UJ	<	0.63	UJ
RDX	116	26 / 40	<	UJ	0.039	0.11	0.16	<	0.061	0.14	0.23	U	<	0.056	0.13	0.21	UJ	<	0.32	UJ
Tetryl	0.26 J	1 / 29	<	UJ	0.054	0.11	0.16	<	0.092	0.23	0.28	U	<	0.085	0.21	0.25	UJ	<	0.38	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017			G0017			G0017			G0017			G0017			G0017			G0017		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/8/2013			3/7/2012			3/7/2011			3/3/2010			3/11/2009			3/14/2008			3/14/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	62	25 / 39	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.99	U	16	0.48		29	0.48		13	0.5	
1,3-Dinitrobenzene	6.44	1 / 36	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
2,4,6-Trinitrotoluene	26	25 / 39	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.4	U	2.8	0.48		4.9	0.48		2.1	0.5	
2,4-Dinitrotoluene	0.26 J	2 / 39	<	0.8	UJ	<	0.8	UJ	0.26	0.8	J	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 39	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	35	16 / 28	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.2	U	1.6	0.48		2.3	0.48		2.4	0.5	
2-Nitrotoluene	0.34 J	1 / 24	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
3-Nitrotoluene	0.45 J	1 / 24	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	4.6	13 / 24	<	1.4	UJ	<	1.4	UJ	<	0.8	UJ	<	0.2	U	1	0.48		1.5	0.48		1.2	0.5	
4-Nitrotoluene	-	0 / 24	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.99	U	<	0.48	U	<	0.48	U	<	0.5	U
HMX	14.7	13 / 32	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
MNX	1.4	1 / 18	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	2	U	1.4	0.48		<	0.48	U	<	0.5	U
Nitrobenzene	-	0 / 36	<	0.8	UJ	<	0.8	UJ	<	0.8	UJ	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
RDX	116	26 / 40	<	0.8	UJ	2.1	0.8	J	1	0.8	J	<	0.2	U	27	0.48		1.4	0.48		<	0.5	U
Tetryl	0.26 J	1 / 29	<	1.6	UJ	<	0.8	UJ	<	0.8	UJ	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017			G0017			G0017			G0017			G0017			G0017			G0017		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/17/2005			3/23/2004			3/20/2003			3/26/2002			3/27/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	62	25 / 39	18	0.48		18	0.48		38	2.2		<	0.17	U	42	4.0	J	56	8		43	16.	
1,3-Dinitrobenzene	6.44	1 / 36	<	0.48	U	<	0.48	U	<	0.22	U	<	0.17	U	<	0.26	U	<	1.6	U	<	0.8	U
2,4,6-Trinitrotoluene	26	25 / 39	3.3	0.48		3.2	0.48		6.8	0.22		5.5	0.17	J	10	0.33	J	13	1.6		13	1.5	
2,4-Dinitrotoluene	0.26 J	2 / 39	<	0.48	U	<	0.48	U	<	0.43	U	<	0.32	U	<	0.26	U	<	1.6	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 39	<	0.48	U	<	0.48	U	<	0.43	U	<	0.32	U	<	1.0	U	<	1.6	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	35	16 / 28	2.3	0.48		2.8	0.48	P	4.8	0.43		5.2	0.32	J	7.2	0.41	J	6.1	1.6		7.00	1	
2-Nitrotoluene	0.34 J	1 / 24	<	0.48	U	<	0.48	U	<	0.43	U	<	0.32	U	<	0.81	U	0.34	1.6	J	<	1.1	U
3-Nitrotoluene	0.45 J	1 / 24	<	0.48	U	<	0.48	U	<	0.43	U	<	0.32	U	<	0.51	U	<	1.6	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	4.6	13 / 24	1.4	0.48		1.7	0.48		2.6	0.43		2.9	0.32	J	4.0	0.69	J	4.3	1.6		4.6	1	
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.7	U	<	0.52	U	<	1.6	U	<	1.6	U	<	1.1	U
HMX	14.7	13 / 32	<	0.48	U	<	0.48	U	0.45	0.55	J	0.52	0.4	J	1.4	1.1	J	<	2	U	1.5	0.8	
MNX	1.4	1 / 18	<	0.48	U	<	0.48	U	<	0.22	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 36	<	0.48	U	<	0.48	U	<	0.22	U	<	0.17	U	<	0.46	U	<	1.6	U	<	0.8	U
RDX	116	26 / 40	<	0.48	U	0.39	0.48	J	2.3	0.22		1.6	0.17	J	4.9	0.66	J	4.1	1.6	U	3.5	0.8	
Tetryl	0.26 J	1 / 29	<	0.48	U	<	0.48	U	<	0.43	U	<	0.32	U	<	1.1	U	<	1.6	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017			G0017			G0017			G0017			G0017			G0017			G0017		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW32			UW33			99		
COLLECT DATE	Detection	Frequency	3/31/1999			6/26/1998			7/17/94			6/12/1994			8/18/1992			7/25/1991			6/2/1991		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	62	25 / 39	35.6	4		27.1	1.00		23.0	NRL		32.0	NRL		<	0.449	U	62.0	NRL			NA	
1,3-Dinitrobenzene	6.44	1 / 36	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.549	U		NA	
2,4,6-Trinitrotoluene	26	25 / 39	9.49	0.8		8.08	1.00		5.67	NRL		9.50	NRL		0.898	NRL		7.89	NRL			NA	
2,4-Dinitrotoluene	0.26 J	2 / 39	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	0.233	NRL		<	0.26	U		NA	
2,6-Dinitrotoluene	-	0 / 39	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.26	U		NA	
2-Amino-4,6-dinitrotoluene	35	16 / 28	4.85	0.8		4.60	0.500		5.46	NRL		11.9	NRL		35.0	NRA		<	0.5	U		NA	
2-Nitrotoluene	0.34 J	1 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	0.45 J	1 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	4.6	13 / 24	1.85	0.8		3.01	1.00	J		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA			NA	
HMX	14.7	13 / 32	1.07	0.8		0.659	0.500	J	2.76	NRL		8.24	NRL		<	1.21	U	3.45	NRL			NA	
MNX	1.4	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 36	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.817	U		NA	
RDX	116	26 / 40	6.9	0.8		1.22	1.00		11.5	NRL		13.0	NRL		<	1.17	U	8.80	NRL		9.27	NRL	
Tetryl	0.26 J	1 / 29	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA		<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017			G0017			G0017			G0017			G0017			G0017			G0017		
METHOD	Maximum	Detection	UW14			UW14			UW01			UW01			D1			D1			D1		
COLLECT DATE	Detection	Frequency	10/15/1990			4/24/1990			5/15/1989			11/8/1988			6/19/1985			12/4/1984			9/18/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	62	25 / 39	49.3	NRL		43.4	NRL		38.0	NRL		49.0	NRL		20.0	NRL		19.5	NRL		10.0	NRL	
1,3-Dinitrobenzene	6.44	1 / 36	<	0.519	U	6.44	NRL		<	0.61	U	<	0.61	U		NA			NA			NA	
2,4,6-Trinitrotoluene	26	25 / 39	18.6	NRL		15.8	NRL		13.1	NRL		12.5	NRL		20.0	NRL		<	1.9	U	<	0.9	U
2,4-Dinitrotoluene	0.26 J	2 / 39	<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U	<	0.6	U	<	1.2	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 39	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U	<	1.2	U	<	1.2	U	<	0.6	U
2-Amino-4,6-dinitrotoluene	35	16 / 28		NA			NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 24		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	0.45 J	1 / 24		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	4.6	13 / 24		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA			NA	
HMX	14.7	13 / 32	4.04	NRL		14.7	NRL		7.18	NRL		4.93	NRL			NA			NA			NA	
MNX	1.4	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 36	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U		NA			NA			NA	
RDX	116	26 / 40	8.31	NRL		28.7	NRL		28.1	NRL		11.0	NRL		24.0	NRL		18.4	NRL		16.6	NRL	
Tetryl	0.26 J	1 / 29	<	0.556	U	<	0.556	U		NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-EXPLOSIVES

FIELD ID			G0017			G0017			G0017			G0017		
METHOD	Maximum	Detection	6N			6N			6N			6N		
COLLECT DATE	Detection	Frequency	2/10/1984			11/3/1983			1/15/1983			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	62	25 / 39	25.5	NRL		10.8	NRL		25.3	NRL		13.6	NRL	
1,3-Dinitrobenzene	6.44	1 / 36	<	1.24	U	<	3.9	U	<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	26	25 / 39	26.0	NRL		16.2	NRL		14.4	NRL		9.20	NRL	
2,4-Dinitrotoluene	0.26 J	2 / 39	<	0.62	U	<	1.9	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 39	<	1.58	U	<	4.2	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	35	16 / 28		NA			NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 24		NA			NA			NA			NA	
3-Nitrotoluene	0.45 J	1 / 24		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	4.6	13 / 24		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA			NA			NA	
HMX	14.7	13 / 32		NA			NA			NA			NA	
MNX	1.4	1 / 18		NA			NA			NA			NA	
Nitrobenzene	-	0 / 36	<	1.36	U	<	4.8	U	<	2.1	U	<	2.1	U
RDX	116	26 / 40	35.0	NRL		116	NRL		32.3	NRL		<	9.6	U
Tetryl	0.26 J	1 / 29		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-EXPLOSIVES

FIELD ID			G0018			G0018			G0018			G0018			G0018			G0018			G0018		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/14/2013			3/5/2012			3/9/2011			3/3/2010			3/11/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 19							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-EXPLOSIVES

FIELD ID			G0018			G0018			G0018			G0018			G0018			G0018			G0018		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2008			3/15/2007			3/28/2006			3/16/2005			3/17/2004			3/18/2003			3/22/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.2	U	<	0.16	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 22	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.2	U	<	0.16	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.2	U	<	0.16	U	<	0.20	U
2,4-Dinitrotoluene	-	0 / 24	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 24	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.25	U
2-Nitrotoluene	-	0 / 17	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.49	U
3-Nitrotoluene	-	0 / 17	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.42	U
4-Nitrotoluene	-	0 / 17	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.62	U	<	0.5	U	<	1.0	U
HMX	-	0 / 20	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.68	U
MNX	-	0 / 10	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.2	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.2	U	<	0.16	U	<	0.28	U
RDX	-	0 / 24	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.2	U	<	0.16	U	<	0.40	U
Tetryl	-	0 / 19	<	0.47	U	<	0.51	U	<	0.51	U	<	0.48	U	<	0.38	U	<	0.31	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-EXPLOSIVES

FIELD ID			G0018			G0018			G0018			G0018			G0018			G0018			G0018		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/26/2001			3/20/2000			3/29/1999			6/18/1998			10/4/1997			7/15/1994			6/11/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U		NA			NA	
HMX	-	0 / 20	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 19	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-EXPLOSIVES

FIELD ID			G0018			G0018			G0018			G0018			G0018		
METHOD	Maximum	Detection	UW32			D1			D1			6N			6N		
COLLECT DATE	Detection	Frequency	8/18/1992			6/19/1985			12/4/1984			1/14/1983			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 24	<	0.449	U	<	1.4	U	<	1.4	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 22	<	0.611	U		NA			NA		<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.635	U	<	1.9	U	<	1.9	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 24	<	0.064	U	<	0.6	U	<	1.2	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 24	<	0.074	U	<	1.2	U	<	1.2	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.158	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
HMX	-	0 / 20	<	1.21	U		NA			NA			NA			NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.645	U		NA			NA		<	2.1	U	<	2.1	U
RDX	-	0 / 24	<	1.17	U	<	7	U	<	9	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 19		NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-EXPLOSIVES

FIELD ID			G0019			G0019			G0019			G0019			G0019			G0019			G0019		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/19/2013			3/14/2012			3/10/2011			3/15/2010			3/12/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.25	1 / 31							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	0.991	1 / 28							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	1.7 J	16 / 31							<	0.8	U	<	0.8	U	<	0.8	U	0.097	0.4	J	0.6	0.48	
2,4-Dinitrotoluene	0.269	1 / 31							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 31	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	10	20 / 21	**2014**			**in 2014**			4.1	0.8	J	4.5	0.8		2.7	0.8		2.3	0.2	J	4.2	0.48	
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	12	17 / 17							4.1	1.4	J	5	1.4		3.1	0.8		1.8	0.2	J	3	0.48	
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	2.07	15 / 25							0.23	0.8	J	0.22	0.8	J	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 28							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	6.66	18 / 32							0.38	0.8	J	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-EXPLOSIVES

FIELD ID			G0019			G0019			G0019			G0019			G0019			G0019			G0019		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2008			3/14/2007			3/28/2006			3/17/2005			3/17/2004			3/25/2003			3/26/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.25	1 / 31	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	0.25	0.21		<	0.22	U	<	0.24	U
1,3-Dinitrobenzene	0.991	1 / 28	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.22	U	<	0.16	U
2,4,6-Trinitrotoluene	1.7 J	16 / 31	0.96	0.48		0.7	0.49		0.58	0.48		0.74	0.48		1.6	0.21		1.4	0.22		1.7	0.20	J
2,4-Dinitrotoluene	0.269	1 / 31	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.42	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 31	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.42	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	10	20 / 21	5.3	0.48		10	0.49		6.4	0.48		3.5	0.48	J	3.9	0.41		2.8	0.42		3.7	0.25	
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.42	U	<	0.49	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.42	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	12	17 / 17	4.7	0.48		9.9	0.49		12	0.48		6.5	0.48		4.7	0.41		1.6	0.42		2.0	0.42	
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.67	U	<	0.68	U	<	1.0	U
HMX	2.07	15 / 25	<	0.48	U	<	0.49	U	<	0.48	U	0.43	0.48	J	0.72	0.52		0.36	0.53	J	0.78	0.68	
MNX	-	0 / 10	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U		NA			NA	
Nitrobenzene	-	0 / 28	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.22	U	<	0.28	U
RDX	6.66	18 / 32	<	0.48	U	<	0.49	U	<	0.48	U	0.61	0.48		0.9	0.21		1	0.22		1.5	0.40	
Tetryl	-	0 / 22	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.42	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-EXPLOSIVES

FIELD ID			G0019			G0019			G0019			G0019			G0019			G0019			G0019		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/26/2001			3/21/2000			3/31/1999			6/22/1998			10/3/1997			7/16/1994			6/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.25	1 / 31	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	0.991	1 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U	0.991	NRL	
2,4,6-Trinitrotoluene	1.7 J	16 / 31	<	0.8	U	1.1	1.5	J	1.21	0.8		2.07	1.00	U	1.53	0.29		1.37	NRL		0.926	NRL	
2,4-Dinitrotoluene	0.269	1 / 31	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	0.269	0.233		<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 31	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	10	20 / 21	2.6	0.8		3	1		2.83	0.8		2.63	0.500	U	3.03	0.173		2.68	NRL		2.65	NRL	
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	12	17 / 17	1.6	0.8		1.9	1		2.01	0.8		2.77	1.00	J	2.68	0.309			NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U		NA			NA	
HMX	2.07	15 / 25	0.76	1	J	1	0.8		1.39	0.8		1.50	0.500	J	1.94	0.16		1.40	NRL		1.36	NRL	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	6.66	18 / 32	2.2	0.8		1.8	0.8		3.22	0.8		4.14	1.00	U	4.63	0.558		6.66	NRL		5.58	NRL	
Tetryl	-	0 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-EXPLOSIVES

FIELD ID			G0019			G0019			G0019			G0019			G0019			G0019			G0019		
METHOD	Maximum	Detection	UW32			UW33			99			UW14			UW14			UW01			UW01		
COLLECT DATE	Detection	Frequency	8/19/1992			7/25/1991			6/2/1991			10/16/1990			4/23/1990			5/15/1989			11/8/1988		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.25	1 / 31	<	0.449	U	<	0.425	U		NA		<	0.626	U	<	0.626	U	<	0.56	U	<	0.56	U
1,3-Dinitrobenzene	0.991	1 / 28	<	0.611	U	<	0.549	U		NA		<	0.519	U	<	0.519	U	<	0.61	U	<	0.61	U
2,4,6-Trinitrotoluene	1.7 J	16 / 31	1.30	NRL		<	0.451	U		NA		<	0.588	U	<	0.588	U	<	0.78	U	<	0.78	U
2,4-Dinitrotoluene	0.269	1 / 31	<	0.064	U	<	0.26	U		NA		<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 31	<	0.074	U	<	0.26	U		NA		<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	10	20 / 21	4.53	NRL		<	0.5	U		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	12	17 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	2.07	15 / 25	2.07	NRL		2.07	NRL			NA		<	1.65	U	<	1.65	U	<	1.3	U	<	1.3	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.645	U	<	0.817	U		NA		<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U
RDX	6.66	18 / 32	5.13	NRL		3.22	NRL		3.32	NRL		3.26	NRL		3.43	NRL		<	6.3	U	4.10	NRL	
Tetryl	-	0 / 22		NA		<	1.18	U		NA		<	0.556	U	<	0.556	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-EXPLOSIVES

FIELD ID			G0019			G0019			G0019			G0019			G0019			G0019		
METHOD	Maximum	Detection	D1			D1			D1			6N			6N			6N		
COLLECT DATE	Detection	Frequency	6/19/1985			12/4/1984			9/19/1984			11/3/1983			1/15/1983			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.25	1 / 31	<	1.4	U	<	1.4	U	<	0.5	U	<	3.5	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	0.991	1 / 28		NA			NA			NA		<	3.9	U	<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	1.7 J	16 / 31	<	1.9	U	<	1.9	U	<	0.9	U	<	3.5	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	0.269	1 / 31	<	0.6	U	<	1.2	U	<	0.6	U	<	1.9	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 31	<	1.2	U	<	1.2	U	<	0.6	U	<	4.2	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	10	20 / 21		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	12	17 / 17		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
HMX	2.07	15 / 25		NA			NA			NA			NA			NA			NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28		NA			NA			NA		<	4.8	U	<	2.1	U	<	2.1	U
RDX	6.66	18 / 32	<	7	U	<	9	U	<	9	U	<	16	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 22		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-EXPLOSIVES

FIELD ID			G0020			G0020			G0020			G0020			G0020			G0020			G0020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/19/2013			3/8/2012			3/9/2011			3/16/2010			3/12/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	4.43	3 / 30							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 28							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	0.096 J	1 / 30							<	0.8	U	<	0.8	U	<	0.8	U	0.096	0.4	J	<	0.48	U
2,4-Dinitrotoluene	-	0 / 30							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 30	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	**2014**			**in 2014**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.34 J	1 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	2.36	8 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 28							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	3.48	12 / 31							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-EXPLOSIVES

FIELD ID			G0020			G0020			G0020			G0020			G0020			G0020			G0020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2008			3/14/2007			3/17/2006			3/17/2005			3/17/2004			3/24/2003			3/25/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	4.43	3 / 30	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.28	U	<	0.38	U
1,3-Dinitrobenzene	-	0 / 28	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.28	U	<	0.25	U
2,4,6-Trinitrotoluene	0.096 J	1 / 30	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.28	U	<	0.32	U
2,4-Dinitrotoluene	-	0 / 30	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.54	U	<	0.25	U
2,6-Dinitrotoluene	-	0 / 30	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.54	U	<	0.98	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.54	U	<	0.40	U
2-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.54	U	<	0.78	U
3-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.54	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	0.34 J	1 / 17	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	0.34	0.54	J	<	0.67	U
4-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.88	U	<	1.6	U
HMX	2.36	8 / 25	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.42	U	0.6	0.68	J	0.62	1.1	J
MNX	-	0 / 10	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.17	U		NA			NA	
Nitrobenzene	-	0 / 28	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.28	U	<	0.44	U
RDX	3.48	12 / 31	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	0.17	0.17	J	1	0.28		0.81	0.63	
Tetryl	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.54	U	<	1.0	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-EXPLOSIVES

FIELD ID			G0020			G0020			G0020			G0020			G0020			G0020			G0020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/27/2001			3/21/2000			3/31/1999			6/22/1998			10/3/1997			7/17/1994			6/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	4.43	3 / 30	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	0.096 J	1 / 30	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 30	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 30	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	2.44	U	<	2.44	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	0.34 J	1 / 17	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U		NA			NA	
HMX	2.36	8 / 25	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	0.526	0.16		1.57	NRL		1.52	NRL	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	3.48	12 / 31	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	0.685	0.558		1.35	NRL		1.49	NRL	
Tetryl	-	0 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-EXPLOSIVES

FIELD ID			G0020			G0020			G0020			G0020			G0020			G0020			G0020		
METHOD	Maximum	Detection	UW32			UW33			99			UW14			UW14			UW01			UW01		
COLLECT DATE	Detection	Frequency	8/18/1992			7/25/1991			6/2/1991			10/16/1990			4/24/1990			5/15/1989			11/8/1988		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	4.43	3 / 30	<	0.449	U	<	0.425	U		NA		4.43	NRL		3.22	NRL		<	0.56	U	<	0.56	U
1,3-Dinitrobenzene	-	0 / 28	<	0.611	U	<	0.549	U		NA		<	0.519	U	<	0.519	U	<	0.61	U	<	0.61	U
2,4,6-Trinitrotoluene	0.096 J	1 / 30	<	0.635	U	<	0.451	U		NA		<	0.588	U	<	0.588	U	<	0.78	U	<	0.78	U
2,4-Dinitrotoluene	-	0 / 30	<	0.064	U	<	0.26	U		NA		<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 30	<	0.074	U	<	0.26	U		NA		<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.158	U	<	0.5	U		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	0.34 J	1 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	2.36	8 / 25	<	1.21	U	2.28	NRL			NA		2.36	NRL		1.84	NRL		<	1.3	U	<	1.3	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.645	U	<	0.817	U		NA		<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U
RDX	3.48	12 / 31	3.48	NRL		2.08	NRL		0.982	NRL		2.11	NRL		<	2.11	U	1.49	NRL		1.27	NRL	
Tetryl	-	0 / 22		NA		<	1.18	U		NA		<	0.556	U	<	0.556	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-EXPLOSIVES

FIELD ID			G0020			G0020			G0020			G0020			G0020		
METHOD	Maximum	Detection	D1			D1			6N			6N			6N		
COLLECT DATE	Detection	Frequency	12/4/1984			9/20/1984			11/3/1983			1/15/1983			1/7/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	4.43	3 / 30	<	1.4	U	<	0.5	U	4.19	NRL		<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 28		NA			NA		<	3.9	U	<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	0.096 J	1 / 30	<	1.9	U	<	0.9	U	<	3.5	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 30	<	1.2	U	<	0.6	U	<	1.9	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 30	<	1.2	U	<	0.6	U	<	4.2	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 21		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	0.34 J	1 / 17		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA	
HMX	2.36	8 / 25		NA			NA			NA			NA			NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28		NA			NA		<	4.8	U	<	2.1	U	<	2.1	U
RDX	3.48	12 / 31	<	9	U	<	9	U	<	16	U	<	9.6	U	<	9.6	U
Tetryl	-	0 / 22		NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-EXPLOSIVES

FIELD ID			G0021			G0021			G0021			G0021			G0021			G0021		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/14/2013			3/13/2012			3/11/2011			3/17/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 39							<	0.8	U	<	0.8	U	<	0.8	U	<	0.98	U
1,3-Dinitrobenzene	-	0 / 29							<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U
2,4,6-Trinitrotoluene	-	0 / 39							<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U
2,4-Dinitrotoluene	-	0 / 39							<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U
2,6-Dinitrotoluene	-	0 / 39	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	1.3	6 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.98	U
HMX	6.04	20 / 24							0.94	0.8	J	<	0.8	U	<	0.8	U	0.78	0.39	
MNX	0.17 J	1 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 29							<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U
RDX	117	32 / 39							0.9	0.8	J	<	0.8	U	<	0.8	U	0.36	0.2	
Tetryl	-	0 / 21							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-EXPLOSIVES

FIELD ID			G0021			G0021			G0021			G0021			G0021			G0021			G0021		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2009			3/18/2008			3/15/2007			3/15/2006			3/16/2005			3/17/2004			3/18/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 39	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.16	U
1,3-Dinitrobenzene	-	0 / 29	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 39	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.16	U
2,4-Dinitrotoluene	-	0 / 39	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.31	U
2,6-Dinitrotoluene	-	0 / 39	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.31	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.31	U
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.31	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	1.3	6 / 17	<	0.48	U	<	0.5	U	1.3	0.49		1.3	0.48		1.2	0.48		0.66	0.39		0.25	0.31	J
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.62	U	<	0.5	U
HMX	6.04	20 / 24	0.75	0.48		<	0.5	U	4.1	0.49		3.7	0.48		3.7	0.48		3.4	0.49		2.8	0.39	
MNX	0.17 J	1 / 10	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	0.17	0.2	J		NA	
Nitrobenzene	-	0 / 29	<	0.48	U	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.16	U
RDX	117	32 / 39	<	0.48	U	<	0.5	U	7.7	0.49		9.4	0.48		9.7	0.48		9.9	1		8.1	0.8	
Tetryl	-	0 / 21	<	0.48	UJ	<	0.5	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.31	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-EXPLOSIVES

FIELD ID			G0021			G0021			G0021			G0021			G0021			G0021			G0021		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/21/2002			3/22/2001			3/21/2000			3/31/1999			6/18/1998			10/3/1997			7/14/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 39	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 29	<	0.19	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 39	<	0.26	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 39	<	0.19	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 39	<	0.72	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.29	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	2.44	U
2-Nitrotoluene	-	0 / 17	<	0.57	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 17	<	0.36	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	1.3	6 / 17	0.24	0.49	J	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 17	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U		NA	
HMX	6.04	20 / 24	2.9	0.79		1.3	1.0		2.3	0.8		2.04	0.8		2.81	0.500		1.82	0.16		4.94	NRL	
MNX	0.17 J	1 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 29	<	0.33	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U
RDX	117	32 / 39	8.7	2.3		5.5	0.8		7.2	0.8		7.2	0.8		7.56	1.00		<	5.58	U	18.0	NRL	
Tetryl	-	0 / 21	<	0.77	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-EXPLOSIVES

FIELD ID			G0021			G0021			G0021			G0021			G0021			G0021			G0021		
METHOD	Maximum	Detection	UW33			UW32			UW14			UW14			UW01			UW01			UW01		
COLLECT DATE	Detection	Frequency	6/15/1994			8/25/1992			10/15/1990			4/24/1990			5/15/1989			11/8/1988			7/26/1988		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 39	<	0.425	U	<	0.449	U	<	0.626	U	<	0.626	U	<	0.56	U	<	0.56	U	<	0.56	U
1,3-Dinitrobenzene	-	0 / 29	<	0.549	U	<	0.611	U	<	0.519	U	<	0.519	U	<	0.61	U	<	0.61	U		NA	
2,4,6-Trinitrotoluene	-	0 / 39	<	0.451	U	<	0.635	U	<	0.588	U	<	0.588	U	<	0.78	U	<	0.78	U	<	0.78	U
2,4-Dinitrotoluene	-	0 / 39	<	0.26	U	<	0.064	U	<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 39	<	0.26	U	<	0.074	U	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	2.44	U	<	0.158	U		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	1.3	6 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	6.04	20 / 24	4.91	NRL		2.63	NRL		<	1.65	U	2.50	NRL		5.59	NRL		6.04	NRL			NA	
MNX	0.17 J	1 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 29	<	0.817	U	<	0.645	U	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U		NA	
RDX	117	32 / 39	17.0	NRL		7.13	NRL		<	2.11	U	<	2.11	U	5.52	NRL		6.81	NRL		6.84	NRL	
Tetryl	-	0 / 21	<	1.18	U		NA		<	0.556	U	<	0.556	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-EXPLOSIVES

FIELD ID			G0021			G0021			G0021			G0021			G0021			G0021			G0021		
METHOD	Maximum	Detection	UW01			UW01			UW01			D1			D1			D1			D1		
COLLECT DATE	Detection	Frequency	1/25/1988			4/15/1987			9/24/1986			3/12/1986			12/11/1985			9/11/1985			6/18/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 39	<	0.56	U	<	0.56	U	<	0.56	U	<	1.4	U	<	1.40	U	<	1.4	U	<	1.4	U
1,3-Dinitrobenzene	-	0 / 29		NA			NA			NA			NA			NA		<	NA	U		NA	
2,4,6-Trinitrotoluene	-	0 / 39	<	0.78	U	<	0.78	U	<	0.78	U	<	1.9	U	<	1.90	U	<	1.9	U	<	1.9	U
2,4-Dinitrotoluene	-	0 / 39	<	0.6	U	<	0.6	U	<	0.6	U	<	0.56	U	<	0.56	U	<	0.56	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 39	<	0.55	U	<	0.55	U	<	0.55	U	<	1.2	U	<	1.2	U	<	1.2	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 20		NA			NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	1.3	6 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	6.04	20 / 24		NA			NA			NA			NA			NA			NA			NA	
MNX	0.17 J	1 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 29		NA			NA			NA			NA			NA			NA			NA	
RDX	117	32 / 39	8.38	NRL		10.3	NRL		8.49	NRL		13.6	NRL		21.7	NRL		13.2	NRL		9.02	NRL	
Tetryl	-	0 / 21		NA			NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-EXPLOSIVES

FIELD ID			G0021			G0021			G0021			G0021			G0021			G0021			G0021		
METHOD	Maximum	Detection	D1			D1			6N			6N			6N			6N			6N		
COLLECT DATE	Detection	Frequency	12/4/1984			9/19/1984			6/15/1984			2/10/1984			11/3/1983			1/18/1983			1/6/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 39	<	1.4	U	<	0.5	U	<	1.08	U	<	1.08	U	<	3.5	U	<	1.9	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 29		NA			NA		<	1.24	U	<	1.24	U	<	3.9	U	<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 39	<	1.9	U	<	0.9	U	<	1.08	U	<	1.08	U	<	3.5	U	<	1.2	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 39	<	1.2	U	<	0.6	U	<	0.62	U	<	0.62	U	<	1.9	U	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 39	<	1.2	U	<	0.6	U	<	1.58	U	<	1.58	U	<	4.2	U	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 20		NA			NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	1.3	6 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	6.04	20 / 24		NA			NA			NA			NA			NA			NA			NA	
MNX	0.17 J	1 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 29		NA			NA		<	1.36	U	<	1.36	U	<	4.8	U	<	2.1	U	<	2.1	U
RDX	117	32 / 39	58.4	NRL		50.7	NRL		33.6	NRL		74.0	NRL		81.5	NRL		66.4	NRL		117	NRL	
Tetryl	-	0 / 21		NA			NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022					G0022					G0022					G0022				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/15/2020					6/11/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	26	40 / 46	0.22		0.082	0.2	0.21	<	U	0.091	0.22	0.23	0.95	J	0.2	0.39	0.98	0.61		0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 36	<	U	0.036	0.098	0.11	<	U	0.04	0.11	0.12	<	UJ	0.087	0.2	0.39	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	420	44 / 46	0.69		0.044	0.098	0.11	2.3		0.049	0.11	0.12	2.3	J	0.16	0.39	0.39	1.9		0.052	0.1	0.15
2,4-Dinitrotoluene	0.086 J	3 / 46	<	U	0.027	0.078	0.1	0.049	J	0.03	0.087	0.11	<	UJ	0.082	0.2	0.39	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 46	<	U	0.039	0.078	0.1	<	U	0.044	0.087	0.11	<	UJ	0.063	0.2	0.2	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	6.9	26 / 27	1		0.05	0.098	0.11	1.8		0.055	0.11	0.12	2.4	J	0.049	0.12	0.2	3.1		0.031	0.1	0.15
2-Nitrotoluene	1.3	2 / 24	<	UJ	0.084	0.2	0.21	<	U	0.093	0.22	0.23	<	UJ	0.083	0.2	0.39	<	U	0.091	0.21	0.52
3-Nitrotoluene	0.18 J	1 / 24	<	UJ	0.19	0.39	0.39	<	U	0.21	0.44	0.44	<	UJ	0.19	0.39	0.39	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	8.4	25 / 25	0.7		0.056	0.12	0.15	1.4		0.063	0.13	0.16	1.7	J	0.056	0.12	0.2	4		0.052	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	UJ	0.098	0.39	0.4	<	U	0.11	0.44	0.45	<	UJ	0.2	0.39	0.98	<	U	0.091	0.21	0.52
HMX	10.5	29 / 31	<	U	0.086	0.2	0.21	<	U	0.095	0.22	0.23	0.31	J	0.085	0.2	0.39	0.89		0.029	0.1	0.15
MNX	0.26 J	2 / 18	<	U	0.15	0.39	2	<	U	0.17	0.44	2.2	<	UJ	0.15	0.39	2	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 36	<	U	0.089	0.2	0.21	<	U	0.099	0.22	0.23	<	UJ	0.089	0.2	0.39	<	U	0.052	0.1	0.15
RDX	94	42 / 46	<	U	0.05	0.2	0.21	<	U	0.056	0.22	0.23	<	UJ	0.15	0.39	0.39	0.82		0.037	0.1	0.15
Tetryl	-	0 / 28	<	U	0.031	0.098	0.11	<	U	0.035	0.11	0.12	<	UJ	0.077	0.2	0.23	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022					G0022					G0022					G0022		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/16/2016					8/12/2015					8/8/2014		
			Result	Q	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	0.62	J	0.032	0.1	0.16	0.48	0.24	0.49	1.2	J	0.46	0.21	0.42	1.1	J	<	1.1	U
1,3-Dinitrobenzene	-	0 / 36	<	U	0.052	0.1	0.16	<	0.11	0.24	0.49	U	<	0.094	0.21	0.42	U	<	0.44	U
2,4,6-Trinitrotoluene	420	44 / 46	1.9	J	0.052	0.1	0.16	1.6	0.088	0.24	0.49		1.8	0.077	0.21	0.42		0.67	0.44	
2,4-Dinitrotoluene	0.086 J	3 / 46	0.086	J	0.052	0.1	0.14	<	0.1	0.24	0.49	U	<	0.089	0.21	0.42	U	<	0.44	U
2,6-Dinitrotoluene	-	0 / 46	<	U	0.052	0.1	0.14	<	0.079	0.24	0.24	U	<	0.068	0.21	0.21	U	<	0.22	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27	3.9	J	0.031	0.1	0.16	2.6	0.062	0.15	0.24		2.9	0.054	0.13	0.21		2.1	0.22	J
2-Nitrotoluene	1.3	2 / 24	<	U	0.092	0.21	0.52	<	0.1	0.24	0.49	U	0.20	0.090	0.21	0.42	J	<	0.44	U
3-Nitrotoluene	0.18 J	1 / 24	<	U	0.059	0.21	0.52	<	0.1	0.24	0.49	U	<	0.088	0.21	0.42	U	<	0.44	U
4-Amino-2,6-dinitrotoluene	8.4	25 / 25	5.1	J	0.052	0.1	0.16	3.1	0.07	0.15	0.24		4.0	0.061	0.13	0.21		3.5	0.22	
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.24	0.49	1.2	U	<	0.21	0.42	1.1	U	<	1	U
HMX	10.5	29 / 31	1.1	J	0.037	0.1	0.16	0.91	0.11	0.24	0.49	J	0.31	0.093	0.21	0.42	J	1	0.44	
MNX	0.26 J	2 / 18	<	U	0.029	0.1	0.52	<	0.44	0.44	2.4	U	<	0.38	0.38	2.1	U	<	2.2	U
Nitrobenzene	-	0 / 36	<	U	0.052	0.1	0.16	<	0.11	0.24	0.49	U	<	0.096	0.21	0.42	U	<	0.44	U
RDX	94	42 / 46	1.1	J	0.037	0.1	0.16	1.1	0.064	0.15	0.24		0.91	0.055	0.13	0.21		1.7	0.22	
Tetryl	-	0 / 28	<	U	0.052	0.1	0.16	<	0.097	0.24	0.29	U	<	0.084	0.21	0.25	U	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022			G0022			G0022			G0022			G0022		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/14/2012			3/15/2011			3/17/2010			3/13/2009			3/13/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	0.55	0.8	J	<	0.8	U	0.94	0.8		1.1	1		0.64	0.48		9.1	0.48	
1,3-Dinitrobenzene	-	0 / 36	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	420	44 / 46	3.7	0.8	J	2	0.8		9.1	0.8		9.8	0.4		3.9	0.48		24	0.48	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.8	U	<	0.8	U	<	0.8	U	0.09	0.4	J	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 46	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27	3.4	0.8	J	4.3	0.8		5.8	0.8		6.9	0.2		2.4	0.48		6.3	0.48	
2-Nitrotoluene	1.3	2 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	0.18 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.18	0.4	J	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	8.4	25 / 25	5.6	1.4	J	6	1.4		8.4	0.8		7	0.2		3.3	0.48		6.6	0.48	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	10.5	29 / 31	2.1	0.8	J	3.1	0.8	J	3.4	0.8		4	0.4		4.3	0.48		5.3	0.48	
MNX	0.26 J	2 / 18	<	0.8	U	<	0.8	U	0.3	0.8	J	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 36	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
RDX	94	42 / 46	2.9	0.8	J	4.5	0.8		7.3	0.8		12	0.2		9.5	0.48		28	0.48	
Tetryl	-	0 / 28	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	UJ	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022			G0022			G0022			G0022			G0022		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2007			3/15/2006			3/16/2005			3/17/2004			3/18/2003			3/21/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	10	0.48		12	0.48		12	0.48		14	1.2		<	0.16	U	13	1.8	
1,3-Dinitrobenzene	-	0 / 36	<	0.48	U	<	0.48	U	<	0.48	U	<	0.24	U	<	0.16	U	<	0.24	U
2,4,6-Trinitrotoluene	420	44 / 46	14	0.48		9.1	0.48		5.2	0.48		4.8	0.24		4.3	0.16	J	6.8	0.30	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.48	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.24	U
2,6-Dinitrotoluene	-	0 / 46	<	0.48	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.93	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27	6.9	0.48		5.5	0.48		3.3	0.48	P	2	0.46		1.3	0.31	J	1.6	0.38	
2-Nitrotoluene	1.3	2 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.74	U
3-Nitrotoluene	0.18 J	1 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.46	U
4-Amino-2,6-dinitrotoluene	8.4	25 / 25	6.4	0.48		7.3	0.48		6.1	0.48		4.1	0.46		2.7	0.31	J	1.4	0.63	
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.5	U	<	1.5	U
HMX	10.5	29 / 31	3.4	0.48		2.8	0.48		1.9	0.48		1.3	0.58		0.64	0.39	J	1.8	1.0	
MNX	0.26 J	2 / 18	<	0.48	U	<	0.48	U	0.26	0.48	J	<	0.24	U		NA			NA	
Nitrobenzene	-	0 / 36	<	0.48	U	<	0.48	U	<	0.48	U	<	0.24	U	<	0.16	U	<	0.42	U
RDX	94	42 / 46	21	0.48		15	0.48		9	0.48		4.3	0.24		2	0.16	J	2.7	0.60	
Tetryl	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.99	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022			G0022			G0022			G0022			G0022		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/22/2001			3/22/2000			4/1/1999			6/25/1998			7/14/1994			6/15/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	19	1.6		17	8		19	4		16.3	1.00		17.0	NRL		17.0	NRL	
1,3-Dinitrobenzene	-	0 / 36	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	420	44 / 46	10	0.8		8.3	1.5		8.9	0.8		6.86	1.00		11.0	NRL		12.0	NRL	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 46	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27	2.1	0.8		1.7	1		2.2	0.8		<	0.500	U	1.40	NRL		1.41	NRL	
2-Nitrotoluene	1.3	2 / 24	1.3	0.8		<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	0.18 J	1 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	8.4	25 / 25	1.5	0.8		1.9	1		2.2	0.8		1.24	1.00	J		NA		1.44	NRL	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
HMX	10.5	29 / 31	3.2	1.0		4.8	0.8		6.9	0.8		8.58	0.500		2.24	NRL		2.35	NRL	
MNX	0.26 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 36	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U
RDX	94	42 / 46	12	0.8		27	8		43	4		23.7	1.00		8.10	NRL		8.16	NRL	
Tetryl	-	0 / 28	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022			G0022			G0022			G0022			G0022		
METHOD	Maximum	Detection	UW32			UW14			UW14			UW01			UW01			UW01		
COLLECT DATE	Detection	Frequency	8/25/1992			10/16/1990			4/24/1990			5/15/1989			11/8/1988			7/26/1988		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	19.3	NRL		10.7	NRL		26.0	NRL		25.0	NRL		23.0	NRL		20.0	NRL	
1,3-Dinitrobenzene	-	0 / 36	<	0.611	U	<	0.519	U	<	0.519		<	0.61	U	<	0.61	U		NA	
2,4,6-Trinitrotoluene	420	44 / 46	18.7	NRL		17.7	NRL		22.0	NRL		24.0	NRL		28.0	NRL		32.0	NRL	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.064	U	<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 46	<	0.074	U	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27	2.48	NRL			NA		<	NA	U		NA			NA			NA	
2-Nitrotoluene	1.3	2 / 24		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	0.18 J	1 / 24		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	8.4	25 / 25		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA	
HMX	10.5	29 / 31	10.5	NRL		8.20	NRL		9.81	NRL		6.78	NRL		6.76	NRL			NA	
MNX	0.26 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 36	<	0.645	U	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U		NA	
RDX	94	42 / 46	35.8	NRL		94.0	NRL		94.0	NRL		53.0	NRL		35.0	NRL		36.0	NRL	
Tetryl	-	0 / 28		NA		<	0.556	U	<	0.556	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022			G0022			G0022			G0022			G0022		
METHOD	Maximum	Detection	UW01			UW01			UW01			D1			D1			D1		
COLLECT DATE	Detection	Frequency	1/25/1988			4/15/1987			9/24/1986			3/12/1986			12/11/1985			9/11/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	21.0	NRL		25.5	NRL		22.9	NRL		19.4	NRL		25.5	NRL		24.8	NRL	
1,3-Dinitrobenzene	-	0 / 36		NA			NA			NA			NA			NA			NA	
2,4,6-Trinitrotoluene	420	44 / 46	420	NRL		35.8	NRL		40.0	NRL		32.6	NRL		41.9	NRL		46.4	NRL	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.6	U	<	0.6	U	<	0.6	U	<	0.56	U	<	0.56	U	<	0.56	U
2,6-Dinitrotoluene	-	0 / 46	<	0.55	U	<	0.55	U	<	0.55	U	<	1.2	U	<	1.2	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	1.3	2 / 24		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	0.18 J	1 / 24		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	8.4	25 / 25		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA	
HMX	10.5	29 / 31		NA			NA			NA			NA			NA			NA	
MNX	0.26 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 36		NA			NA			NA			NA			NA			NA	
RDX	94	42 / 46	49.0	NRL		50.0	NRL		30.5	NRL		66.3	NRL		72.9	NRL		62.6	NRL	
Tetryl	-	0 / 28		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022			G0022			G0022			G0022			G0022		
METHOD	Maximum	Detection	D1			D1			D1			6N			6N			6N		
COLLECT DATE	Detection	Frequency	6/19/1985			12/4/1984			9/20/1984			6/15/1984			2/10/1984			11/3/1983		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	26	40 / 46	20.0	NRL		20.9	NRL		10.0	NRL		<	1.08	U	14.0	NRL		<	3.5	U
1,3-Dinitrobenzene	-	0 / 36		NA			NA			NA		<	1.24	U	<	1.24	U	<	3.9	U
2,4,6-Trinitrotoluene	420	44 / 46	20.0	NRL		<	1.9	U	<	0.9	U	4.00	NRL		45.5	NRL		9.29	NRL	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.6	U	<	1.2	U	<	0.6	U	<	0.62	U	<	0.62	U	<	1.9	U
2,6-Dinitrotoluene	-	0 / 46	<	1.2	U	<	1.2	U	<	0.6	U	<	1.58	U	<	1.58	U	<	4.2	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	1.3	2 / 24		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	0.18 J	1 / 24		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	8.4	25 / 25		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA	
HMX	10.5	29 / 31		NA			NA			NA			NA			NA			NA	
MNX	0.26 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 36		NA			NA			NA		<	1.36	U	<	1.36	U	<	4.8	U
RDX	94	42 / 46	37.7	NRL		47.7	NRL		40.5	NRL		33.6	NRL		29.0	NRL		23.2	NRL	
Tetryl	-	0 / 28		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-EXPLOSIVES

FIELD ID			G0022			G0022		
METHOD	Maximum	Detection	6N			6N		
COLLECT DATE	Detection	Frequency	1/19/1983			1/12/1982		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	26	40 / 46	6.1	NRL		13.9	NRL	
1,3-Dinitrobenzene	-	0 / 36	<	2.2	U	<	2.2	U
2,4,6-Trinitrotoluene	420	44 / 46	30.9	NRL		99.7	NRL	
2,4-Dinitrotoluene	0.086 J	3 / 46	<	0.9	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 46	<	0.68	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	6.9	26 / 27		NA			NA	
2-Nitrotoluene	1.3	2 / 24		NA			NA	
3-Nitrotoluene	0.18 J	1 / 24		NA			NA	
4-Amino-2,6-dinitrotoluene	8.4	25 / 25		NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA	
HMX	10.5	29 / 31		NA			NA	
MNX	0.26 J	2 / 18		NA			NA	
Nitrobenzene	-	0 / 36	<	2.1	U	<	2.1	U
RDX	94	42 / 46	16.7	NRL		<	9.6	U
Tetryl	-	0 / 28		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023					G0023					G0023					G0023				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/13/2020					6/4/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	352	38 / 51	<	U	0.084	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.23	0.46	1.2	<	UJ	0.033	0.11	0.16
1,3-Dinitrobenzene	1.85	2 / 41	<	U	0.037	0.1	0.11	<	U	0.039	0.1	0.11	<	U	0.1	0.23	0.46	<	UJ	0.053	0.11	0.16
2,4,6-Trinitrotoluene	5290	40 / 51	<	U	0.045	0.1	0.11	<	U	0.047	0.1	0.11	<	U	0.19	0.46	0.46	<	UJ	0.053	0.11	0.16
2,4-Dinitrotoluene	12.3	17 / 51	<	U	0.027	0.08	0.1	<	U	0.029	0.084	0.1	<	U	0.097	0.23	0.46	<	UJ	0.053	0.11	0.14
2,6-Dinitrotoluene	2.85	4 / 51	<	U	0.04	0.08	0.1	<	U	0.042	0.084	0.1	<	U	0.075	0.23	0.23	<	UJ	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	17	20 / 31	<	UJ	0.051	0.1	0.11	<	U	0.053	0.1	0.11	<	U	0.059	0.14	0.23	<	UJ	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.086	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.099	0.23	0.46	<	UJ	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 23	<	UJ	0.2	0.4	0.4	<	U	0.2	0.42	0.42	<	U	0.23	0.46	0.46	<	UJ	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	19	15 / 25	<	UJ	0.058	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.067	0.14	0.23	<	UJ	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 23	<	UJ	0.1	0.4	0.41	<	U	0.1	0.42	0.43	<	UJ	0.23	0.46	1.2	<	UJ	0.093	0.21	0.53
HMX	77.1	29 / 36	<	U	0.088	0.2	0.21	<	U	0.092	0.21	0.22	<	U	0.1	0.23	0.46	<	UJ	0.03	0.11	0.16
MNX	0.14 J	1 / 18	<	U	0.15	0.4	2	<	U	0.16	0.42	2.1	<	U	0.18	0.46	2.3	<	UJ	0.038	0.11	0.53
Nitrobenzene	5.22	3 / 40	<	U	0.091	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.11	0.23	0.46	<	UJ	0.053	0.11	0.16
RDX	307	43 / 51	<	U	0.052	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.18	0.46	0.46	<	UJ	0.038	0.11	0.16
Tetryl	6.72	1 / 31	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.092	0.23	0.28	<	UJ	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023					G0023					G0023					G0023		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/15/2016					8/17/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	352	38 / 51	<	U	0.032	0.10	0.16	<	0.23	0.47	1.2	U	<	0.21	0.43	1.1	UJ	<	1.1	U
1,3-Dinitrobenzene	1.85	2 / 41	0.081	J	0.052	0.10	0.16	<	0.1	0.23	0.47	U	<	0.095	0.16	0.43	UJ	<	0.43	U
2,4,6-Trinitrotoluene	5290	40 / 51	0.086	J	0.052	0.10	0.16	<	0.084	0.23	0.47	U	<	0.077	0.16	0.43	UJ	<	0.43	U
2,4-Dinitrotoluene	12.3	17 / 51	<	U	0.052	0.10	0.14	<	0.098	0.23	0.47	U	<	0.090	0.16	0.43	UJ	<	0.43	U
2,6-Dinitrotoluene	2.85	4 / 51	<	U	0.052	0.10	0.14	<	0.075	0.23	0.23	U	<	0.069	0.16	0.21	UJ	<	0.22	U
2-Amino-4,6-dinitrotoluene	17	20 / 31	<	U	0.031	0.10	0.16	<	0.059	0.14	0.23	U	<	0.054	0.13	0.21	UJ	<	0.22	U
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.1	0.23	0.47	U	<	0.091	0.16	0.43	UJ	<	0.43	U
3-Nitrotoluene	-	0 / 23	<	U	0.059	0.21	0.52	<	0.097	0.23	0.47	U	<	0.089	0.16	0.43	UJ	<	0.43	U
4-Amino-2,6-dinitrotoluene	19	15 / 25	<	U	0.052	0.10	0.16	<	0.067	0.14	0.23	U	<	0.062	0.13	0.21	UJ	<	0.22	U
4-Nitrotoluene	-	0 / 23	<	U	0.092	0.21	0.52	<	0.23	0.47	1.2	U	<	0.21	0.43	1.1	UJ	<	1.1	U
HMX	77.1	29 / 36	0.63		0.037	0.10	0.16	<	0.1	0.23	0.47	U	<	0.094	0.16	0.43	UJ	<	0.43	J
MNX	0.14 J	1 / 18	<	U	0.029	0.10	0.52	<	0.42	0.42	2.3	U	<	0.38	0.38	2.1	UJ	<	2.2	U
Nitrobenzene	5.22	3 / 40	0.11	J	0.052	0.10	0.16	<	0.11	0.23	0.47	U	<	0.097	0.16	0.43	UJ	<	0.43	U
RDX	307	43 / 51	0.15	J	0.037	0.10	0.16	<	0.061	0.14	0.23	U	<	0.056	0.13	0.21	UJ	<	0.22	U
Tetryl	6.72	1 / 31	<	U	0.052	0.10	0.16	<	0.093	0.23	0.28	U	<	0.085	0.16	0.26	UJ	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023			G0023			G0023			G0023			G0023			G0023			G0023		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/13/2012			3/10/2011			3/17/2010			3/16/2009			3/18/2008			3/15/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	352	38 / 51	<	0.8	U	0.29	0.8	J	0.48	0.8	J	6.8	0.99		32	0.48		42	0.48		59	0.97	
1,3-Dinitrobenzene	1.85	2 / 41	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	5290	40 / 51	<	0.8	U	<	0.8	U	1.2	0.8		2.8	0.4		15	0.48		18	0.48		29	0.49	
2,4-Dinitrotoluene	12.3	17 / 51	<	0.8	U	<	0.8	U	<	0.8	U	0.12	0.4	J	<	0.48	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	2.85	4 / 51	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	17	20 / 31	<	0.8	U	<	0.8	U	1.1	0.8		2.3	0.2		3.1	0.48		2.7	0.48		3.1	0.49	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	19	15 / 25	<	1.4	U	<	1.4	U	1.5	0.8		2.1	0.2		4.1	0.48		3.1	0.48		2.5	0.49	
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.49	U
HMX	77.1	29 / 36	1.7	0.8	J	2.6	0.8		1.7	0.8		1.2	0.4		1.1	0.48		1.3	0.48	J	2.4	0.49	
MNX	0.14 J	1 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.49	U
Nitrobenzene	5.22	3 / 40	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
RDX	307	43 / 51	<	0.8	U	0.82	0.8	J	2.8	0.8		2	0.2		4	0.48		2.8	0.48		9.2	0.49	
Tetryl	6.72	1 / 31	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023			G0023			G0023			G0023			G0023			G0023			G0023		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2006			3/16/2005			3/18/2004			3/18/2003			3/21/2002			3/23/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	352	38 / 51	60	4.8		64	2.4		84	1.9		<	0.22	U	68	2.6		170	16.0		160	40	
1,3-Dinitrobenzene	1.85	2 / 41	<	0.48	U	<	0.48	U	<	0.19	U	<	0.22	U	<	0.17	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	5290	40 / 51	26	0.48		26	0.48		57	1.9		25	2.2	J	48	2.2		220	16.0		280	75	
2,4-Dinitrotoluene	12.3	17 / 51	<	0.48	U	<	0.48	U	0.42	0.36		<	1.3	UJ	0.46	0.17		1.4	0.8		1.4	1.1	
2,6-Dinitrotoluene	2.85	4 / 51	<	0.48	U	<	0.48	U	<	0.36	U	<	0.43	U	<	0.67	U	2	0.8		<	1.1	U
2-Amino-4,6-dinitrotoluene	17	20 / 31	2.9	0.48		2.7	0.48	P	4.2	0.36		1.9	0.43	J	2.6	0.27		8.1	0.8		8.7	1	
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.36	U	<	0.43	U	<	0.53	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 23	<	0.48	U	<	0.48	U	<	0.36	U	<	0.43	U	<	0.34	U		NA		<	1.1	U
4-Amino-2,6-dinitrotoluene	19	15 / 25	2.1	0.48		2.4	0.48		3.4	0.36		1.5	0.43	J	5.4	0.46	J	4.3	0.8		8	1	
4-Nitrotoluene	-	0 / 23	<	0.48	U	<	0.48	U	<	0.58	U	<	0.69	U	<	1.1	U		NA		<	1.1	U
HMX	77.1	29 / 36	2.4	0.48		1.6	0.48		2.4	0.46		2.3	0.54	J	1.9	0.74		2.6	1.0		6.6	0.8	
MNX	0.14 J	1 / 18	<	0.48	U	<	0.48	U	0.14	0.19	J		NA			NA			NA			NA	
Nitrobenzene	5.22	3 / 40	<	0.48	U	<	0.48	U	<	0.19	U	<	0.22	U	<	0.30	U	3.7	0.8		<	0.8	U
RDX	307	43 / 51	23	0.48		7.3	0.48		11	1.9		8.6	0.22	J	6.9	0.43		14	0.8		27	40	J
Tetryl	6.72	1 / 31	<	0.48	U	<	0.48	U	<	0.36	U	<	0.43	U	<	0.72	U	<	4	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023			G0023			G0023			G0023			G0023			G0023			G0023		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	4/2/1999			6/18/1998			7/15/1994			6/21/1994			7/1/1993			6/24/1993			10/14/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	352	38 / 51	83	8		104	1.00		140	NRL		130	NRL		110	NRL		88.0	NRL		86.0	NRL	
1,3-Dinitrobenzene	1.85	2 / 41	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	5290	40 / 51	130	8		174	10.00		230	NRL		280	NRL		240	NRL		180	NRL		180	NRL	
2,4-Dinitrotoluene	12.3	17 / 51	1.1	0.8		<	0.500	U	0.882	NRL		0.301	NRL		0.186	NRL		0.187	NRL		<	0.064	U
2,6-Dinitrotoluene	2.85	4 / 51	<	0.8	U	<	0.500	U	1.65	NRL		2.85	NRL		<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	17	20 / 31	9.9	0.8		10.7	0.500		16.0	NRL		17.0	NRL		15.6	NRL		11.2	NRL		8.98	NRL	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	1.00	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	19	15 / 25	7	0.8		10.0	1.00		19.0	NRL			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1.00	U		NA			NA			NA			NA			NA	
HMX	77.1	29 / 36	6.4	0.8		15.6	0.500		44.0	NRL		44.0	NRL		77.1	NRL		26.1	NRL		46.4	NRL	
MNX	0.14 J	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	5.22	3 / 40	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	5.22	NRL		<	0.645	U	<	0.645	U
RDX	307	43 / 51	24	8		22.3	1.00		61.0	NRL		68.0	NRL		77.0	NRL		46.4	NRL		65.5	NRL	
Tetryl	6.72	1 / 31	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U	<	1.18	U	<	1.56	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023			G0023			G0023			G0023			G0023			G0023			G0023		
METHOD	Maximum	Detection	UW32			UW33			UW33			UW14			UW14			UW01			UW01		
COLLECT DATE	Detection	Frequency	9/2/1992			7/25/1991			7/25/1991			10/16/1990			4/25/1990			5/15/1989			11/8/1988		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	352	38 / 51	100	NRL		25.0	NRL		58.0	NRL		91.0	NRL		80.0	NRL		12.0	NRL		99.0	NRL	
1,3-Dinitrobenzene	1.85	2 / 41	<	0.611	U	<	0.61	U	<	5.5	U	<	0.519	U	1.85	NRL		<	0.61	U	<	0.61	U
2,4,6-Trinitrotoluene	5290	40 / 51	200	NRL		24.0	NRL		170	NRL		280	NRL		200	NRL		360	NRL		310	NRL	
2,4-Dinitrotoluene	12.3	17 / 51	0.353	NRL		<	0.6	U	<	2.6	U	<	0.612	U	<	0.612	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	2.85	4 / 51	<	0.074	U	<	0.55	U	<	2.6	U	<	1.15	U	<	1.15	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	17	20 / 31	11.5	NRL			NA		<	5	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	19	15 / 25		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23		NA			NA			NA			NA			NA			NA			NA	
HMX	77.1	29 / 36	60.0	NRL		6.78	NRL		17.0	NRL		11.8	NRL		9.85	NRL		13.0	NRL		12.6	NRL	
MNX	0.14 J	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	5.22	3 / 40	<	0.645	U	<	1.13	U	<	8.2	U	<	1.07	U	<	1.07	U	<	1.13	U	<	1.13	U
RDX	307	43 / 51	52.9	NRL		53.0	NRL		88.0	NRL		70.0	NRL		56.0	NRL		80.0	NRL		55.0	NRL	
Tetryl	6.72	1 / 31		NA			NA		<	12	U	<	0.556	U	6.72	NRL			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023			G0023			G0023			G0023			G0023			G0023			G0023		
METHOD	Maximum	Detection	UW01			UW01			UW01			UW01			D1			D1			D1		
COLLECT DATE	Detection	Frequency	7/26/1988			1/25/1988			4/15/1987			9/24/1986			3/12/1986			12/11/1985			9/11/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	352	38 / 51	69.0	NRL		92.0	NRL		35.0	NRL		130	NRL		100	NRL		<	140	U	208	NRL	
1,3-Dinitrobenzene	1.85	2 / 41		NA			NA			NA			NA			NA			NA			NA	
2,4,6-Trinitrotoluene	5290	40 / 51	340	NRL		490	NRL		130	NRL		460	NRL		281	NRL		455	NRL		508	NRL	
2,4-Dinitrotoluene	12.3	17 / 51	<	0.6	U	<	0.6	U	<	0.6	U	<	0.6	U	0.95	NRL		<	0.56	U	<	0.56	U
2,6-Dinitrotoluene	2.85	4 / 51	<	0.55	U	<	0.55	U	<	0.55	U	<	0.55	U	<	1.2	U	<	1.2	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	17	20 / 31		NA			NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	19	15 / 25		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23		NA			NA			NA			NA			NA			NA			NA	
HMX	77.1	29 / 36		NA			NA			NA			NA			NA			NA			NA	
MNX	0.14 J	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	5.22	3 / 40		NA			NA			NA			NA			NA			NA			NA	
RDX	307	43 / 51	38.0	NRL		28.0	NRL		27.6	NRL		11.8	NRL		30.2	NRL		37.3	NRL		56.7	NRL	
Tetryl	6.72	1 / 31		NA			NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023			G0023			G0023			G0023			G0023			G0023			G0023		
METHOD	Maximum	Detection	D1			D1			D1			6N			6N			6N			6N		
COLLECT DATE	Detection	Frequency	6/19/1985			12/4/1984			9/20/1984			6/15/1984			2/10/1984			11/3/1983			1/19/1983		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	352	38 / 51	<	17.5	U	102	NRL		10.0	**GT**		<	1.08	U	73.4	NRL		119	NRL		159	NRL	
1,3-Dinitrobenzene	1.85	2 / 41		NA			NA			NA		<	1.24	U	<	1.24	U	<	3.9	U	<	2.2	U
2,4,6-Trinitrotoluene	5290	40 / 51	54.0	NRL		<	1.9	U	<	0.9	U	5.60	NRL		498	NRL		929	NRL		902	NRL	
2,4-Dinitrotoluene	12.3	17 / 51	<	0.6	U	<	1.2	U	2.00	NRL		0.879	NRL		1.71	NRL		<	1.9	U	0.964	NRL	
2,6-Dinitrotoluene	2.85	4 / 51	<	1.2	U	<	1.2	U	<	0.6	U	<	1.36	U	<	1.58	U	<	4.2	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	17	20 / 31		NA			NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 24		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	19	15 / 25		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23		NA			NA			NA			NA			NA			NA			NA	
HMX	77.1	29 / 36		NA			NA			NA			NA			NA			NA			NA	
MNX	0.14 J	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	5.22	3 / 40		NA			NA			NA			NA		<	1.36	U	<	4.8	U	<	2.1	U
RDX	307	43 / 51	45.6	NRL		38.4	NRL		81.2	NRL		40.8	NRL		99.0	NRL		96.2	NRL		135	NRL	
Tetryl	6.72	1 / 31		NA			NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-EXPLOSIVES

FIELD ID			G0023		
METHOD	Maximum	Detection	6N		
COLLECT DATE	Detection	Frequency	1/7/1982		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	352	38 / 51	352	NRL	
1,3-Dinitrobenzene	1.85	2 / 41	<	2.2	U
2,4,6-Trinitrotoluene	5290	40 / 51	5290	NRL	
2,4-Dinitrotoluene	12.3	17 / 51	12.3	NRL	
2,6-Dinitrotoluene	2.85	4 / 51	2.00	NRL	
2-Amino-4,6-dinitrotoluene	17	20 / 31		NA	
2-Nitrotoluene	-	0 / 24		NA	
3-Nitrotoluene	-	0 / 23		NA	
4-Amino-2,6-dinitrotoluene	19	15 / 25		NA	
4-Nitrotoluene	-	0 / 23		NA	
HMX	77.1	29 / 36		NA	
MNX	0.14 J	1 / 18		NA	
Nitrobenzene	5.22	3 / 40	<	2.1	U
RDX	307	43 / 51	307	NRL	
Tetryl	6.72	1 / 31		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024					G0024					G0024					G0024				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	1.3	7 / 49	<	U	0.089	0.21	0.22	<	U	0.09	0.21	0.22	<	U	0.2	0.4	0.99	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 39	<	U	0.039	0.11	0.12	<	U	0.04	0.11	0.12	<	U	0.088	0.2	0.4	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	323	41 / 49	0.44		0.048	0.11	0.12	0.63	J	0.048	0.11	0.12	<	U	0.16	0.4	0.4	1.1		0.052	0.1	0.15
2,4-Dinitrotoluene	0.563	2 / 49	<	U	0.029	0.085	0.11	<	U	0.029	0.086	0.11	<	U	0.083	0.2	0.4	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 49	<	U	0.043	0.085	0.11	<	U	0.043	0.086	0.11	<	U	0.064	0.2	0.2	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	11.1	27 / 30	1.2		0.054	0.11	0.12	1.3		0.054	0.11	0.12	0.082	J	0.05	0.12	0.2	1.8		0.031	0.1	0.15
2-Nitrotoluene	0.34 J	1 / 26	<	UJ	0.091	0.21	0.22	<	U	0.092	0.21	0.22	<	UJ	0.085	0.2	0.4	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 26	<	UJ	0.21	0.42	0.42	<	U	0.21	0.43	0.43	<	UJ	0.19	0.4	0.4	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	14	23 / 27	1.1		0.061	0.13	0.16	1.5		0.062	0.13	0.16	<	U	0.057	0.12	0.2	1.9		0.052	0.1	0.15
4-Nitrotoluene	-	0 / 26	<	UJ	0.11	0.42	0.44	<	U	0.11	0.43	0.44	<	UJ	0.2	0.4	0.99	<	U	0.091	0.21	0.52
HMX	8.62	24 / 34	<	U	0.093	0.21	0.22	<	U	0.094	0.21	0.22	<	U	0.087	0.2	0.4	0.41		0.029	0.1	0.15
MNX	3.9 J	2 / 18	<	U	0.16	0.42	2.1	<	U	0.16	0.43	2.1	<	U	0.15	0.4	2	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 39	<	U	0.097	0.21	0.22	<	U	0.097	0.21	0.22	<	U	0.09	0.2	0.4	<	U	0.052	0.1	0.15
RDX	180	41 / 49	<	U	0.055	0.21	0.22	0.59		0.055	0.21	0.22	<	U	0.16	0.4	0.4	0.53		0.037	0.1	0.15
Tetryl	-	0 / 31	<	U	0.034	0.11	0.12	<	U	0.034	0.11	0.12	<	U	0.079	0.2	0.24	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024					G0024					G0024					G0024				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	4/1/2017					8/16/2016					8/12/2015					8/14/2014				
			Result	Q	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual		
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	1.3	7 / 49	<	U	0.032	0.1	0.16	<	0.21	0.43	1.1	U	<	0.22	0.43	1.1	U	<	1.1	U		
1,3-Dinitrobenzene	-	0 / 39	<	U	0.052	0.1	0.16	<	0.095	0.21	0.43	U	<	0.096	0.22	0.43	U	<	0.43	U		
2,4,6-Trinitrotoluene	323	41 / 49	2		0.052	0.1	0.16	<	0.077	0.21	0.43	U	0.98	0.078	0.22	0.43		0.96	0.43			
2,4-Dinitrotoluene	0.563	2 / 49	<	U	0.052	0.1	0.13	<	0.090	0.21	0.43	U	<	0.090	0.22	0.43	U	<	0.43	U		
2,6-Dinitrotoluene	-	0 / 49	<	U	0.052	0.1	0.13	<	0.069	0.21	0.21	U	<	0.070	0.22	0.22	U	<	0.22	U		
2-Amino-4,6-dinitrotoluene	11.1	27 / 30	2.6		0.031	0.1	0.16	0.95	0.054	0.13	0.21		1.3	0.055	0.13	0.22		1.70	0.22			
2-Nitrotoluene	0.34 J	1 / 26	<	U	0.091	0.21	0.52	<	0.091	0.21	0.43	U	<	0.092	0.22	0.43	U	<	0.43	U		
3-Nitrotoluene	-	0 / 26	<	U	0.059	0.21	0.52	<	0.089	0.21	0.43	U	<	0.090	0.22	0.43	U	<	0.43	U		
4-Amino-2,6-dinitrotoluene	14	23 / 27	2.8		0.052	0.1	0.16	1.0	0.062	0.13	0.21		1.5	0.062	0.13	0.22		2.1	0.22			
4-Nitrotoluene	-	0 / 26	<	U	0.091	0.21	0.52	<	0.21	0.43	1.1	U	<	0.22	0.43	1.1	U	<	1.1	U		
HMX	8.62	24 / 34	0.49		0.037	0.1	0.16	<	0.094	0.21	0.43	U	<	0.094	0.22	0.43	U	0.39	0.43	J		
MNX	3.9 J	2 / 18	<	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.39	0.39	2.2	U	<	2.2	U		
Nitrobenzene	-	0 / 39	<	U	0.052	0.1	0.16	<	0.097	0.21	0.43	U	<	0.098	0.22	0.43	U	<	0.43	U		
RDX	180	41 / 49	0.87		0.037	0.1	0.16	<	0.056	0.13	0.21	U	0.40	0.056	0.13	0.22		1.2	0.22			
Tetryl	-	0 / 31	<	U	0.052	0.1	0.16	<	0.085	0.21	0.26	U	<	0.085	0.22	0.26	U	<	0.26	UJ		

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012			3/14/2011			3/16/2010			3/13/2009			3/12/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49	<	0.8	U	0.64	0.8	J	<	0.8	U	<	1	UJ	<	0.49	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 39	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	UJ	<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	323	41 / 49	2.2	0.8	J	2.9	0.8	J	3	0.8		0.59	0.4	J	9.6	0.49		16	0.48	
2,4-Dinitrotoluene	0.563	2 / 49	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	UJ	<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 49	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	UJ	<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30	2.4	0.8	J	2.6	0.8		2.3	0.8		<	0.2	UJ	4.9	0.49		6	0.48	
2-Nitrotoluene	0.34 J	1 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	UJ	<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	UJ	<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	14	23 / 27	2	1.4	J	1.7	1.4		1.6	0.8		<	0.2	UJ	5	0.49		5.4	0.48	
4-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	1	UJ	<	0.49	U	<	0.48	U
HMX	8.62	24 / 34	0.69	0.8	J	0.64	0.8	J	0.37	0.8	J	<	0.4	UJ	0.91	0.49		1.7	0.48	
MNX	3.9 J	2 / 18	<	0.8	U	<	0.8	U	<	0.8	U	3.9	2	J	<	0.49	U	<	0.48	U
Nitrobenzene	-	0 / 39	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	UJ	<	0.49	U	<	0.48	U
RDX	180	41 / 49	1.4	0.8	J	0.93	0.8		1.4	0.8		<	0.2	UJ	3.1	0.49		4.4	0.48	
Tetryl	-	0 / 31	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	UJ	<	0.49	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2007			3/14/2006			3/15/2005			3/16/2004			3/18/2003			3/20/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49	<	0.48	U	<	0.48	U	<	0.48	U	<	0.19	U	<	0.2	U	<	0.40	U
1,3-Dinitrobenzene	-	0 / 39	<	0.48	U	<	0.48	U	<	0.48	U	<	0.19	U	<	0.2	U	<	0.27	U
2,4,6-Trinitrotoluene	323	41 / 49	20	0.48		<	0.48	U	0.93	0.48		1.2	0.19		2.4	0.2		7.6	0.34	
2,4-Dinitrotoluene	0.563	2 / 49	<	0.48	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.38	U	<	0.27	U
2,6-Dinitrotoluene	-	0 / 49	<	0.48	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.38	U	<	1.0	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30	9.6	0.48		<	0.48	U	7.1	0.48	J	6.7	0.36		2.1	0.38		1.8	0.42	
2-Nitrotoluene	0.34 J	1 / 26	<	0.48	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.38	U	<	0.82	U
3-Nitrotoluene	-	0 / 26	<	0.48	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.38	U	<	0.52	U
4-Amino-2,6-dinitrotoluene	14	23 / 27	6.1	0.48		<	0.48	U	5.3	0.48		6.1	0.36		4.8	0.38		2.5	0.71	
4-Nitrotoluene	-	0 / 26	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.62	U	<	1.7	U
HMX	8.62	24 / 34	2.1	0.48		<	0.48	U	1.8	0.48		2.5	0.46		1.9	0.48		0.67	1.1	J
MNX	3.9 J	2 / 18	<	0.48	U	<	0.48	U	<	0.48	U	0.11	0.19	J		NA			NA	
Nitrobenzene	-	0 / 39	<	0.48	U	<	0.48	U	<	0.48	U	<	0.19	U	<	0.2	U	<	0.47	U
RDX	180	41 / 49	6.5	0.48		<	0.48	U	4	0.48		6.4	0.19		7.8	0.2		5.4	0.67	
Tetryl	-	0 / 31	<	0.48	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.38	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/22/2001			3/23/2000			4/1/1999			6/30/1998			10/4/1997			12/15/1996		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49	0.38	0.8	J	<	0.8	U	0.26	0.8	J	<	1.00	U	0.721	0.125		1.3	0.125	
1,3-Dinitrobenzene	-	0 / 39	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U
2,4,6-Trinitrotoluene	323	41 / 49	6.9	0.8		8	1.5		10	0.8		14.4	1.00		23.4	0.29		18	0.29	
2,4-Dinitrotoluene	0.563	2 / 49	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	0.563	0.233		0.26	0.233	
2,6-Dinitrotoluene	-	0 / 49	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30	1.5	0.8		6.6	1		11	0.8		6.71	0.500		11.1	0.173		6.5	0.173	
2-Nitrotoluene	0.34 J	1 / 26	0.34	0.8	J	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U
3-Nitrotoluene	-	0 / 26	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	14	23 / 27	0.96	0.8		6.9	1		14	0.8		8.32	1.00	J	10.4	0.309		12	0.309	
4-Nitrotoluene	-	0 / 26	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U
HMX	8.62	24 / 34	<	1	U	3	0.8		5.9	0.8		4.47	0.500		4.66	0.16		6.5	0.16	
MNX	3.9 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 39	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U
RDX	180	41 / 49	1.2	0.8		9.3	0.8		16	4		13.2	1.00		14.2	0.558		21.1	0.558	
Tetryl	-	0 / 31	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW25			UW14			UW14		
COLLECT DATE	Detection	Frequency	7/15/1994			6/15/1994			8/26/1992			5/29/1991			10/16/1990			4/24/1990		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49	0.597	NRL		0.513	NRL		<	0.449	U	<	0.21	U	<	0.626	U	<	0.626	U
1,3-Dinitrobenzene	-	0 / 39	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U	<	0.519	U	<	0.519	U
2,4,6-Trinitrotoluene	323	41 / 49	11.0	NRL		7.23	NRL		2.69	NRL		3.27	NRL		<	0.588	U	4.69	NRL	
2,4-Dinitrotoluene	0.563	2 / 49	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.612	U	<	0.612	U
2,6-Dinitrotoluene	-	0 / 49	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	1.15	U	<	1.15	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30	5.60	NRL		5.41	NRL		1.72	NRL		<	0.8	U		NA			NA	
2-Nitrotoluene	0.34 J	1 / 26		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	14	23 / 27		NA		<	0.704	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
HMX	8.62	24 / 34	8.62	NRL		8.18	NRL		6.13	NRL		<	0.533	U	<	1.65	U	1.78	NRL	
MNX	3.9 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 39	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U	<	1.07	U	<	1.07	U
RDX	180	41 / 49	27.0	NRL		32.0	NRL		20.3	NRL		0.985	NRL		<	2.11	U	11.9	NRL	
Tetryl	-	0 / 31	<	1.18	U	<	12	U		NA		<	0.631	U	<	0.556	U	<	0.556	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	UW01			UW01			UW01			UW01			UW01			UW01		
COLLECT DATE	Detection	Frequency	5/15/1989			11/8/1988			7/26/1988			1/25/1988			4/15/1987			9/24/1986		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49	<	0.56	U	<	0.56	U	<	0.56	U	<	0.56	U	<	0.56	U	<	0.56	U
1,3-Dinitrobenzene	-	0 / 39	<	0.61	U	<	0.61	U		NA			NA			NA			NA	
2,4,6-Trinitrotoluene	323	41 / 49	10.3	NRL		9.82	NRL		<	0.78	U	27.0	NRL		<	0.78	U	13.5	NRL	
2,4-Dinitrotoluene	0.563	2 / 49	<	0.6	U	<	0.6	U	<	0.6	U	<	0.6	U	<	0.6	U	<	0.6	U
2,6-Dinitrotoluene	-	0 / 49	<	0.55	U	<	0.55	U	<	0.55	U	<	0.55	U	<	0.55	U	<	0.55	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 26		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	14	23 / 27		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
HMX	8.62	24 / 34	5.19	NRL		2.66	NRL			NA			NA			NA			NA	
MNX	3.9 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 39	<	1.13	U	<	1.13	U		NA			NA			NA			NA	
RDX	180	41 / 49	37.8	NRL		18	NRL		1.36	NRL		34.7	NRL		0.89	NRL		16.9	NRL	
Tetryl	-	0 / 31		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	D1			D1			D1			D1			3S			D1		
COLLECT DATE	Detection	Frequency	3/12/1986			12/11/1985			9/11/1985			6/19/1985			12/4/1984			12/4/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49	<	1.4	U	<	1.4	U	<	1.4	U	<	1.4	U		NA		<	1.4	U
1,3-Dinitrobenzene	-	0 / 39		NA			NA			NA			NA			NA			NA	
2,4,6-Trinitrotoluene	323	41 / 49	19.6	NRL		14.0	NRL		5.01	NRL		15.0	NRL			NA		13.1	NRL	
2,4-Dinitrotoluene	0.563	2 / 49	<	0.56	U	<	0.56	U	<	0.56	U	<	0.6	U		NA		<	1.2	U
2,6-Dinitrotoluene	-	0 / 49	<	1.2	U	<	1.2	U	<	1.2	U	<	1.2	U		NA		<	1.2	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 26		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	14	23 / 27		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
HMX	8.62	24 / 34		NA			NA			NA			NA			NA			NA	
MNX	3.9 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 39		NA			NA			NA			NA			NA			NA	
RDX	180	41 / 49	50.0	NRL		48.6	NRL		14.1	NRL		41.2	NRL		<	9	U		NA	
Tetryl	-	0 / 31		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	3S			D1			3S			6N			3S			6N		
COLLECT DATE	Detection	Frequency	9/19/1984			9/19/1984			6/15/1984			6/15/1984			2/10/1984			2/10/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49		NA		<	0.5	U		NA		<	1.08	U		NA		<	1.08	U
1,3-Dinitrobenzene	-	0 / 39		NA			NA			NA		<	1.24	U		NA		<	1.24	U
2,4,6-Trinitrotoluene	323	41 / 49		NA		<	0.9	U		NA		<	1.08	U		NA		2.10	NRL	
2,4-Dinitrotoluene	0.563	2 / 49		NA		<	0.6	U		NA		<	0.62	U		NA		<	0.62	U
2,6-Dinitrotoluene	-	0 / 49		NA		<	0.6	U		NA		<	1.58	U		NA		<	1.58	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 26		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	14	23 / 27		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
HMX	8.62	24 / 34		NA			NA			NA			NA			NA			NA	
MNX	3.9 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 39		NA			NA			NA		<	1.36	U		NA		<	1.36	U
RDX	180	41 / 49	80.1	NRL			NA		54.8	NRL			NA		<	10	U		NA	
Tetryl	-	0 / 31		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-EXPLOSIVES

FIELD ID			G0024			G0024			G0024			G0024			G0024			G0024		
METHOD	Maximum	Detection	3S			6N			3S			6N			3S			6N		
COLLECT DATE	Detection	Frequency	11/2/1983			11/2/1983			1/15/1983			1/15/1983			1/6/1982			1/6/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 49		NA		<	3.5	U		NA		<	1.9	U		NA		<	1.9	U
1,3-Dinitrobenzene	-	0 / 39		NA		<	3.9	U		NA		<	2.2	U		NA		<	2.2	U
2,4,6-Trinitrotoluene	323	41 / 49		NA		11.7	NRL			NA		16.0	NRL			NA		323	NRL	
2,4-Dinitrotoluene	0.563	2 / 49		NA		<	1.9	U		NA		<	0.9	U		NA		<	0.9	U
2,6-Dinitrotoluene	-	0 / 49		NA		<	4.2	U		NA		<	0.68	U		NA		<	0.68	U
2-Amino-4,6-dinitrotoluene	11.1	27 / 30		NA			NA			NA			NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 26		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	14	23 / 27		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA			NA			NA			NA	
HMX	8.62	24 / 34		NA			NA			NA			NA			NA			NA	
MNX	3.9 J	2 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 39		NA		<	4.8	U		NA		<	2.1	U		NA		<	2.1	U
RDX	180	41 / 49	171	NRL			NA		180	NRL			NA		150	NRL			NA	
Tetryl	-	0 / 31		NA			NA			NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0025-EXPLOSIVES

FIELD ID			G0025			G0025			G0025			G0025			G0025			G0025			G0025		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/11/2013			3/5/2012			None			3/12/2007			3/13/2006			3/15/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.51	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.709	7 / 13	**2013**			<	0.8	U	0.16	0.8	J	**in 2008, 2009, 2010, 2011**			<	0.51	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.23 J	1 / 12				<	1.4	U	<	1.4	U				<	0.51	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
HMX	-	0 / 13				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
RDX	-	0 / 14				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 12				<	1.6	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0025-EXPLOSIVES

FIELD ID			G0025			G0025			G0025			G0025			G0025			G0025			G0025		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/15/2004			3/17/2003			3/20/2002			3/21/2001			3/16/2000			3/30/1999			6/26/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.24	U	<	0.16	U	<	0.38	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 14	<	0.24	U	<	0.16	U	<	0.25	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.24	U	<	0.16	U	<	0.32	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 14	<	0.46	U	<	0.31	U	<	0.25	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 14	<	0.46	U	<	0.31	U	<	0.98	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	0.709	7 / 13	0.3	0.46	J	0.35	0.31		0.36	0.40	J	0.2	0.8	J	<	1	U	0.281	0.8	J	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	0.46	U	<	0.31	U	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	0.46	U	<	0.31	U	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	0.23 J	1 / 12	0.23	0.46	J	<	0.31	U	<	0.67	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	0.75	U	<	0.5	U	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 13	<	0.58	U	<	0.39	U	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 6	<	0.24	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.24	U	<	0.16	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 14	<	0.24	U	<	0.16	U	<	0.63	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 12	<	0.46	U	<	0.31	U	<	1.0	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0025-EXPLOSIVES

FIELD ID			G0025			G0025		
METHOD	Maximum	Detection	UW32			6N		
COLLECT DATE	Detection	Frequency	8/19/1992			1/6/1982		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 14	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 14	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 14	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 14	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	0.709	7 / 13	0.709	NRL			NA	
2-Nitrotoluene	-	0 / 12		NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA	
4-Amino-2,6-dinitrotoluene	0.23 J	1 / 12		NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA	
HMX	-	0 / 13	<	1.210	U		NA	
MNX	-	0 / 6		NA			NA	
Nitrobenzene	-	0 / 14	<	0.645	U	<	2.1	U
RDX	-	0 / 14	<	1.170	U	<	9.6	U
Tetryl	-	0 / 12		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0026-EXPLOSIVES

FIELD ID			G0026			G0026			G0026			G0026			G0026			G0026			G0026		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/2/2010			3/9/2009			3/13/2008			3/13/2007			3/27/2006			3/22/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 18				<	1	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 18				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 18				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 18				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 18	**Abandoned**			<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	**2010**			<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 14				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 14				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 14				<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 14				<	1	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
HMX	-	0 / 17				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
MNX	-	0 / 7				<	2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 18				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
RDX	-	0 / 18				<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 16				<	0.24	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0026-EXPLOSIVES

FIELD ID			G0026			G0026			G0026			G0026			G0026			G0026			G0026		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/23/2004			3/21/2003			3/22/2002			3/28/2001			3/13/2000			3/29/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 18	<	0.24	U	<	0.27	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 18	<	0.24	U	<	0.27	U	<	0.29	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 18	<	0.24	U	<	0.27	U	<	0.37	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 18	<	0.46	U	<	0.52	U	<	0.29	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 18	<	0.46	U	<	0.52	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	<	0.46	U	<	0.52	U	<	0.46	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 14	<	0.46	U	<	0.52	U	<	0.90	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 14	<	0.46	U	<	0.52	U	<	0.57	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 14	<	0.46	U	<	0.52	U	<	0.77	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 14	<	0.75	U	<	0.83	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 17	<	0.58	U	<	0.65	U	<	1.2	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 7	<	0.24	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 18	<	0.24	U	<	0.27	U	<	0.51	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 18	<	0.24	U	<	0.27	U	<	0.73	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 16	<	0.46	U	<	0.52	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0026-EXPLOSIVES

FIELD ID			G0026			G0026			G0026			G0026			G0026		
METHOD	Maximum	Detection	UW51			UW33			UW33			UW32			6N		
COLLECT DATE	Detection	Frequency	10/4/1997			7/13/1994			6/20/1994			8/25/1992			1/8/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 18	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 18	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 18	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 18	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 18	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 14	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 14	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 14	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 14	<	0.368	U		NA			NA			NA			NA	
HMX	-	0 / 17	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U		NA	
MNX	-	0 / 7		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 18	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	2.1	U
RDX	-	0 / 18	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	9.6	U
Tetryl	-	0 / 16	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0027-EXPLOSIVES

FIELD ID			G0027			G0027			G0027			G0027			G0027			G0027			G0027		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/2/2010			3/9/2009			3/13/2008			3/13/2007			3/27/2006			3/22/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17				<	1	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 17				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 17				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 17				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 17	**Abandoned**			<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	**2010**			<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 13				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 13				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 13				<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 13				<	1	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
HMX	-	0 / 16				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
MNX	-	0 / 7				<	2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 17				<	0.4	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
RDX	-	0 / 17				<	0.2	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 15				<	0.24	U	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0027-EXPLOSIVES

FIELD ID			G0027			G0027			G0027			G0027			G0027			G0027			G0027		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/23/2004			3/21/2003			3/22/2002			3/28/2001			3/13/2000			3/29/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17	<	0.17	U	<	0.25	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 17	<	0.17	U	<	0.25	U	<	0.30	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 17	<	0.17	U	<	0.25	U	<	0.37	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	-	0 / 17	<	0.33	U	<	0.48	U	<	0.30	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 17	<	0.33	U	<	0.48	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.33	U	<	0.48	U	<	0.46	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 13	<	0.33	U	<	0.48	U	<	0.91	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 13	<	0.33	U	<	0.48	U	<	0.57	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 13	<	0.33	U	<	0.48	U	<	0.78	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 13	<	0.53	U	<	0.77	U	<	1.9	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	-	0 / 16	<	0.41	U	<	0.6	U	<	1.3	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ
MNX	-	0 / 7	<	0.17	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.17	U	<	0.25	U	<	0.52	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	-	0 / 17	<	0.17	U	<	0.25	U	<	0.74	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 15	<	0.33	U	<	0.48	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0027-EXPLOSIVES

FIELD ID			G0027			G0027			G0027			G0027		
METHOD	Maximum	Detection	UW33			UW33			UW32			6N		
COLLECT DATE	Detection	Frequency	7/13/1994			6/21/1994			8/25/1992			1/8/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 17	<	0.425	U	<	0.425	U	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 17	<	0.549	U	<	0.549	U	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.451	U	<	0.451	U	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 17	<	0.26	U	<	0.26	U	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 17	<	0.26	U	<	0.26	U	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.244	U	<	0.244	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 13		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 13		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 13		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 13		NA			NA			NA			NA	
HMX	-	0 / 16	<	0.563	U	<	0.563	U	<	1.21	U		NA	
MNX	-	0 / 7		NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.817	U	<	0.817	U	<	0.645	U	<	2.1	U
RDX	-	0 / 17	<	0.412	U	<	0.412	U	<	1.17	U	<	9.6	U
Tetryl	-	0 / 15	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-EXPLOSIVES

FIELD ID			G0028			G0028			G0028			G0028			G0028			G0028			G0028		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 21	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2016**			**in 2014, 2015, 2016**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.48	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	0.359	2 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.48	U
Nitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U
RDX	1.59	6 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U
Tetryl	-	0 / 19							<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-EXPLOSIVES

FIELD ID			G0028			G0028			G0028			G0028			G0028			G0028			G0028		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2008			3/13/2007			3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/25/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.38	U
1,3-Dinitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.25	UJ
2,4,6-Trinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.31	U
2,4-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.25	U
2,6-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.97	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.39	U
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.77	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.66	U
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.67	U	<	0.5	U	<	1.6	U
HMX	0.359	2 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.52	U	0.26	0.39	J	<	1.1	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U		NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.44	U
RDX	1.59	6 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	0.44	0.16		<	0.63	U
Tetryl	-	0 / 19	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	1.0	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-EXPLOSIVES

FIELD ID			G0028			G0028			G0028			G0028			G0028			G0028			G0028		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/30/2001			6/15/2000			3/29/1999			6/24/1998			10/4/1997			7/13/1994			6/22/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.368	U		NA			NA	
HMX	0.359	2 / 20	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ	0.359	0.16		<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.231	U	<	0.817	U	<	0.817	U
RDX	1.59	6 / 21	0.69	0.8	J	1	0.8		<	0.8	U	<	1.00	UJ	1.42	0.558		1.59	NRL		1.58	NRL	
Tetryl	-	0 / 19	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-EXPLOSIVES

FIELD ID			G0028			G0028		
METHOD	Maximum	Detection	UW32			6N		
COLLECT DATE	Detection	Frequency	8/26/1992			1/8/1982		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 21	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 21	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 21	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 21	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 17		NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA	
HMX	0.359	2 / 20	<	1.21	U		NA	
MNX	-	0 / 10		NA			NA	
Nitrobenzene	-	0 / 21	<	0.645	U	<	2.1	U
RDX	1.59	6 / 21	<	1.17	U	<	9.6	U
Tetryl	-	0 / 19		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0029-EXPLOSIVES

FIELD ID			G0029			G0029			G0029			G0029			G0029			G0029			G0029		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/23/2005			3/16/2004			3/25/2003			3/20/2002			3/23/2001			3/16/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 10				<	0.48	U	<	0.2	U	<	0.22	U	<	0.44	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 10				<	0.48	U	<	0.2	U	<	0.22	U	<	0.30	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 10				<	0.48	U	<	0.2	U	<	0.22	U	<	0.37	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 10				<	0.48	U	<	0.39	U	<	0.43	U	<	0.30	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 10	**Abandoned**			<	0.48	U	<	0.39	U	<	0.43	U	<	1.1	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	**2005**			<	0.48	U	<	0.39	U	<	0.43	U	<	0.46	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.39	U	<	0.43	U	<	0.91	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.39	U	<	0.43	U	<	0.57	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 8				<	0.48	U	<	0.39	U	<	0.43	U	<	0.78	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.63	U	<	0.7	U	<	1.9	U	<	0.8	U	<	1.1	U
HMX	-	0 / 9				<	0.48	U	<	0.49	U	<	0.55	U	<	1.3	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.48	U	<	0.2	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 10				<	0.48	U	<	0.2	U	<	0.22	U	<	0.52	U	<	0.8	U	<	0.8	U
RDX	-	0 / 10				<	0.48	U	<	0.2	U	<	0.22	U	<	0.74	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 8				<	0.48	U	<	0.39	U	<	0.43	U	<	1.2	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0029-EXPLOSIVES

FIELD ID			G0029			G0029			G0029			G0029		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW32			6N		
COLLECT DATE	Detection	Frequency	3/26/1999			6/25/1998			8/21/1992			1/6/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
HMX	-	0 / 9	<	0.8	U	<	0.500	U	<	1.21	U		NA	
MNX	-	0 / 2		NA			NA			NA			NA	
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.645	U	<	2.1	U
RDX	-	0 / 10	<	0.8	U	<	1.00	U	<	1.17	U	<	9.6	U
Tetryl	-	0 / 8	<	0.8	U	<	0.500	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0030-EXPLOSIVES

FIELD ID			G0030			G0030			G0030			G0030			G0030			G0030			G0030		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/23/2005			3/16/2004			3/25/2003			3/20/2002			3/23/2001			3/16/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 11				<	0.48	U	<	0.23	U	<	0.21	U	<	0.48	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 11				<	0.48	U	<	0.23	U	<	0.21	U	<	0.32	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 11				<	0.48	U	<	0.23	U	<	0.21	U	<	0.40	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 11				<	0.48	U	<	0.44	U	<	0.41	U	<	0.32	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 11	**Abandoned**			<	0.48	U	<	0.44	U	<	0.41	U	<	1.2	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	**2005**			<	0.48	U	<	0.44	U	<	0.41	U	<	0.50	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.44	U	<	0.41	U	<	0.98	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.44	U	<	0.41	U	<	0.62	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 8				<	0.48	U	<	0.44	U	<	0.41	U	<	0.84	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.71	U	<	0.67	U	<	2.0	U	<	0.8	U	<	1.1	U
HMX	-	0 / 10				<	0.48	U	<	0.55	U	<	0.52	U	<	1.4	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.48	U	<	0.23	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 11				<	0.48	U	<	0.23	U	<	0.21	U	<	0.56	U	<	0.8	U	<	0.8	U
RDX	0.68	1 / 11				<	0.48	U	<	0.23	U	<	0.21	U	<	0.80	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 8				<	0.48	U	<	0.44	U	<	0.41	U	<	1.3	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0030-EXPLOSIVES

FIELD ID			G0030			G0030			G0030			G0030			G0030		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW32			UW01			6N		
COLLECT DATE	Detection	Frequency	3/26/1999			6/24/1998			8/23/1992			11/8/1988			1/6/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 11	<	0.8	U	<	1.00	U	<	0.449	U	<	0.56	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 11	<	0.8	U	<	0.500	U	<	0.611	U	<	0.61	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 11	<	0.8	U	<	1.00	U	<	0.635	U	<	0.78	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.500	U	<	0.064	U	<	0.6	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.500	U	<	0.074	U	<	0.55	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.158	U		NA			NA	
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 10	<	0.8	U	<	0.500	U	<	1.21	U	<	1.3	U		NA	
MNX	-	0 / 2		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 11	<	0.8	U	<	0.500	U	<	0.645	U	<	1.13	U	<	2.1	U
RDX	0.68	1 / 11	<	0.8	U	<	1.00	U	<	1.17	U	0.68	NRL		<	9.6	U
Tetryl	-	0 / 8	<	0.8	U	<	0.500	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0031-EXPLOSIVES

FIELD ID			G0031			G0031			G0031			G0031			G0031			G0031			G0031		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/22/2005			3/16/2004			3/25/2003			3/20/2002			3/26/2001			3/16/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 10				<	0.48	U	<	0.18	U	<	0.27	U	<	0.27	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 10				<	0.48	U	<	0.18	U	<	0.27	U	<	0.18	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 10				<	0.48	U	<	0.18	U	<	0.27	U	<	0.22	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 10				<	0.48	U	<	0.35	U	<	0.53	U	<	0.18	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 10	**Abandoned**			<	0.48	U	<	0.35	U	<	0.53	U	<	0.69	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	**2005**			<	0.48	U	<	0.35	U	<	0.53	U	<	0.28	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.35	U	<	0.53	U	<	0.55	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.35	U	<	0.53	U	<	0.35	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 8				<	0.48	U	<	0.35	U	<	0.53	U	<	0.47	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.57	U	<	0.85	U	<	1.1	U	<	0.8	U	<	1.1	U
HMX	-	0 / 9				<	0.48	U	<	0.44	U	<	0.66	U	<	0.76	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.48	U	<	0.18	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 10				<	0.48	U	<	0.18	U	<	0.27	U	<	0.31	U	<	0.8	U	<	0.8	U
RDX	-	0 / 10				<	0.48	U	<	0.18	U	<	0.27	U	<	0.45	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 8				<	0.48	U	<	0.35	U	<	0.53	U	<	0.74	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0031-EXPLOSIVES

FIELD ID			G0031			G0031			G0031			G0031		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW32			6N		
COLLECT DATE	Detection	Frequency	3/26/1999			6/25/1998			8/23/1992			1/6/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
HMX	-	0 / 9	<	0.8	U	<	0.500	U	<	1.21	U		NA	
MNX	-	0 / 2		NA			NA			NA			NA	
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.645	U	<	2.1	U
RDX	-	0 / 10	<	0.8	U	<	1.00	U	<	1.17	U	<	9.6	U
Tetryl	-	0 / 8	<	0.8	U	<	0.500	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0032-EXPLOSIVES

FIELD ID			G0032			G0032			G0032			G0032			G0032			G0032/74			G0032/74		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/11/2013			3/5/2012			None			3/13/2007			3/27/2006			3/22/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 15				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 15				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 15	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.50	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010,**			<	0.50	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	**2011**			<	0.50	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U				<	0.50	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
HMX	-	0 / 15				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 15				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
RDX	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 12				<	1.6	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0032-EXPLOSIVES

FIELD ID			G0032/74			G0032			G0032			G0032			G0032			G0032			G0032		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/16/2004			3/20/2003			3/21/2002			3/30/2001			3/13/2000			3/26/1999			6/11/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 15	<	0.25	U	<	0.18	U	<	0.34	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 15	<	0.25	U	<	0.18	U	<	0.22	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 15	<	0.25	U	<	0.18	U	<	0.28	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 15	<	0.48	U	<	0.36	U	<	0.22	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 15	<	0.48	U	<	0.36	U	<	0.87	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.48	U	<	0.36	U	<	0.35	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	0.48	U	<	0.36	U	<	0.69	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	0.48	U	<	0.36	U	<	0.43	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	0.48	U	<	0.36	U	<	0.59	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	0.77	U	<	0.58	U	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 15	<	0.6	U	<	0.45	U	<	0.95	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 6	<	0.25	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 15	<	0.25	U	<	0.18	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 16	<	0.25	U	<	0.18	U	<	0.56	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 12	<	0.48	U	<	0.36	U	<	0.92	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0032-EXPLOSIVES

FIELD ID			G0032			G0032			G0032			G0032		
METHOD	Maximum	Detection	UW32			UW32			UW01			6N		
COLLECT DATE	Detection	Frequency	10/5/1992			8/18/1992			11/8/1988			1/8/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 15	<	0.449	U	<	0.449	U		NA		<	1.9	U
1,3-Dinitrobenzene	-	0 / 15	<	0.611	U	<	0.611	U		NA		<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 15	<	0.635	U	<	0.635	U		NA		<	1.2	U
2,4-Dinitrotoluene	-	0 / 15	<	0.064	U	<	0.064	U		NA		<	0.9	U
2,6-Dinitrotoluene	-	0 / 15	<	0.074	U	<	0.074	U		NA		<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.158	U	<	0.158	U		NA			NA	
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
HMX	-	0 / 15	<	1.21	U	<	1.21	U	<	1.3	U		NA	
MNX	-	0 / 6		NA			NA			NA			NA	
Nitrobenzene	-	0 / 15	<	0.645	U	<	0.645	U		NA		<	2.1	U
RDX	-	0 / 16	<	1.17	U	<	1.17	U	<	0.63	U	<	9.6	U
Tetryl	-	0 / 12		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0033-EXPLOSIVES

FIELD ID			G0033			G0033			G0033			G0033			G0033			G0033			G0033		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/11/2013			3/5/2012			None			3/15/2007			3/27/2006			3/22/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 17				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 17	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.51	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010,**			<	0.51	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	**2011**			<	0.51	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U				<	0.51	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
HMX	-	0 / 16				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 17				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
RDX	-	0 / 17				<	0.8	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U				<	0.51	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0033-EXPLOSIVES

FIELD ID			G0033			G0033			G0033			G0033			G0033			G0033			G0033		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/16/2004			3/20/2003			3/20/2002			3/30/2001			3/14/2000			3/26/1999			6/11/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17	<	0.24	U	<	0.22	U	<	0.59	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 17	<	0.24	U	<	0.22	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.24	U	<	0.22	U	<	0.64	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 17	<	0.46	U	<	0.42	U	<	0.39	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 17	<	0.46	U	<	0.42	U	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.46	U	<	0.42	U	<	0.62	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	0.46	U	<	0.42	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	0.46	U	<	0.42	U	<	0.76	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	0.46	U	<	0.42	U	<	1.0	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	0.75	U	<	0.68	U	<	2.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 16	<	0.58	U	<	0.53	U	<	1.7	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 6	<	0.24	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.24	U	<	0.22	U	<	0.69	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 17	<	0.24	U	<	0.22	U	<	0.99	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 14	<	0.46	U	<	0.42	U	<	1.6	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0033-EXPLOSIVES

FIELD ID			G0033			G0033			G0033			G0033			G0033		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW32			6N		
COLLECT DATE	Detection	Frequency	7/11/1994			6/7/1994			10/6/1992			8/17/1992			1/8/1982		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 17	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U	<	1.9	U
1,3-Dinitrobenzene	-	0 / 17	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U	<	2.2	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U	<	1.2	U
2,4-Dinitrotoluene	-	0 / 17	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U	<	0.9	U
2,6-Dinitrotoluene	-	0 / 17	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U	<	0.68	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U		NA	
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA			NA	
HMX	-	0 / 16	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U		NA	
MNX	-	0 / 6		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U	<	2.1	U
RDX	-	0 / 17	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U	<	9.6	U
Tetryl	-	0 / 14	<	1.18	U	<	1.18	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0042-EXPLOSIVES

FIELD ID			G0042			G0042			G0042			G0042			G0042			G0042			G0042		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/8/2013			None			3/13/2008			3/13/2007			3/29/2006			3/18/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	0.74	2 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 17	**Abandoned**			<	0.8	U	**Not Sampled**			<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	2.4	14 / 17	**2013**			0.86	0.8	J	**in 2009, 2010, 2011, 2012**			0.76	0.48		1.6	0.48		1.6	0.48		1.8	0.48	P
2-Nitrotoluene	-	0 / 13				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 13				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	2.8	13 / 13				0.95	1.4	J				1	0.48		1.5	0.48		2.1	0.48		2.4	0.48	
4-Nitrotoluene	-	0 / 13				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	-	0 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	-	0 / 17				<	0.8	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 15				<	1.6	U				<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0042-EXPLOSIVES

FIELD ID			G0042			G0042			G0042			G0042			G0042			G0042			G0042		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/23/2004			3/20/2003			3/21/2002			3/28/2001			3/17/2000			3/30/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17	<	0.3	U	<	0.19	U	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	0.74	2 / 17	<	0.3	U	<	0.19	U	<	0.27	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.3	U	<	0.19	U	<	0.33	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 17	<	0.58	U	<	0.37	U	<	0.27	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 17	<	0.58	U	<	0.37	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	2.4	14 / 17	2.4	0.58		1.9	0.37		1.2	0.42		0.84	0.8		0.92	1	J	0.766	0.8	J	<	0.500	U
2-Nitrotoluene	-	0 / 13	<	0.58	U	<	0.37	U	<	0.82	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 13	<	0.58	U	<	0.37	U	<	0.52	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	2.8	13 / 13	2.4	0.58		2.8	0.37		2.8	0.70		1.5	0.8		1.2	1		1.38	0.8		1.03	1.00	J*
4-Nitrotoluene	-	0 / 13	<	0.93	U	<	0.6	U	<	1.7	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 17	<	0.73	U	<	0.47	U	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 6	<	0.3	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.3	U	<	0.19	U	<	0.47	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 17	<	0.3	U	<	0.19	U	<	0.67	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 15	<	0.58	U	<	0.37	U	<	1.1	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0042-EXPLOSIVES

FIELD ID			G0042			G0042			G0042			G0042			G0042		
METHOD	Maximum	Detection	UW51			UW33			UW33			UW32			UW33		
COLLECT DATE	Detection	Frequency	10/4/1997			7/15/1994			6/21/1994			8/24/1992			3/19/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 17	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.425	U
1,3-Dinitrobenzene	0.74	2 / 17	<	0.989	U	0.7	NRL		0.74	NRL		<	0.611	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 17	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 17	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	2.4	14 / 17	0.832	0.173		<	0.69	U	0.59	NRL		0.864	NRL		<	0.5	U
2-Nitrotoluene	-	0 / 13	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 13	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	2.8	13 / 13	1.26	0.309			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 13	<	0.368	U		NA			NA			NA			NA	
HMX	-	0 / 17	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	0.563	U
MNX	-	0 / 6		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.817	U
RDX	-	0 / 17	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	0.412	U
Tetryl	-	0 / 15	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0043-EXPLOSIVES

FIELD ID			G0043			G0043			G0043			G0043			G0043			G0043			G0043		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/13/2007			3/28/2006			3/18/2005			3/23/2004			3/20/2003			3/22/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.16	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.16	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.16	U	<	0.20	U
2,4-Dinitrotoluene	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	**2009**			<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.25	U
2-Nitrotoluene	-	0 / 10				<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.49	U
3-Nitrotoluene	-	0 / 10				<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 10				<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.42	U
4-Nitrotoluene	-	0 / 10				<	0.49	U	<	0.48	U	<	0.48	U	<	0.69	U	<	0.5	U	<	1.0	U
HMX	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.39	U	<	0.68	U
MNX	-	0 / 4				<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U		NA			NA	
Nitrobenzene	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.16	U	<	0.28	U
RDX	-	0 / 14				<	0.49	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.16	U	<	0.40	U
Tetryl	-	0 / 12				<	0.49	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.31	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0043-EXPLOSIVES

FIELD ID			G0043			G0043			G0043			G0043			G0043			G0043			G0043		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/28/2001			3/17/2000			3/30/1999			6/24/1998			7/15/1994			6/21/1994			8/26/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 14	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 14	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 10	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 14	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 4		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 12	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0043-EXPLOSIVES

FIELD ID			G0043		
METHOD	Maximum	Detection	UW33		
COLLECT DATE	Detection	Frequency	3/20/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 14	<	0.425	U
1,3-Dinitrobenzene	-	0 / 14	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.451	U
2,4-Dinitrotoluene	-	0 / 14	<	0.26	U
2,6-Dinitrotoluene	-	0 / 14	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.5	U
2-Nitrotoluene	-	0 / 10		NA	
3-Nitrotoluene	-	0 / 10		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 10		NA	
4-Nitrotoluene	-	0 / 10		NA	
HMX	-	0 / 14	<	0.563	U
MNX	-	0 / 4		NA	
Nitrobenzene	-	0 / 14	<	0.817	U
RDX	-	0 / 14	<	0.412	U
Tetryl	-	0 / 12		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-EXPLOSIVES

FIELD ID			G0044					G0044					G0044					G0044				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/10/2020					6/4/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.082	0.2	0.21	<	U	0.087	0.21	0.22	<	U	0.2	0.4	1	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 28	<	U	0.036	0.098	0.11	<	U	0.038	0.1	0.11	<	U	0.089	0.2	0.4	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.044	0.098	0.11	<	U	0.046	0.1	0.11	<	U	0.16	0.4	0.4	<	U	0.05	0.1	0.15
2,4-Dinitrotoluene	22.1	17 / 28	<	U	0.027	0.078	0.1	<	U	0.028	0.082	0.1	<	U	0.084	0.2	0.4	0.092	J	0.05	0.1	0.13
2,6-Dinitrotoluene	-	0 / 28	<	U	0.039	0.078	0.1	<	U	0.041	0.082	0.1	<	U	0.065	0.2	0.2	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.373	4 / 28	<	U	0.05	0.098	0.11	<	U	0.052	0.1	0.11	<	U	0.051	0.12	0.2	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 24	<	UJ	0.084	0.2	0.21	<	U	0.088	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.088	0.2	0.5
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.39	0.39	<	U	0.2	0.41	0.41	<	U	0.2	0.4	0.4	<	U	0.057	0.2	0.5
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.057	0.12	0.15	<	U	0.059	0.12	0.15	<	U	0.058	0.12	0.2	<	U	0.05	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	UJ	0.098	0.39	0.4	<	U	0.1	0.41	0.42	<	UJ	0.2	0.4	1	<	U	0.088	0.2	0.5
HMX	6.1	20 / 28	0.21		0.086	0.2	0.21	<	U	0.09	0.21	0.22	0.47		0.088	0.2	0.4	0.67		0.028	0.1	0.15
MNX	0.15 J	1 / 18	<	U	0.15	0.39	2	<	U	0.16	0.41	2.1	<	U	0.15	0.4	2	<	U	0.036	0.1	0.5
Nitrobenzene	-	0 / 28	<	U	0.089	0.2	0.21	<	U	0.094	0.21	0.22	<	U	0.091	0.2	0.4	<	U	0.05	0.1	0.15
RDX	8.8	23 / 28	<	U	0.05	0.2	0.21	<	U	0.053	0.21	0.22	0.5	J	0.16	0.4	0.4	0.67		0.036	0.1	0.15
Tetryl	-	0 / 26	<	U	0.031	0.098	0.11	<	U	0.033	0.1	0.11	<	U	0.079	0.2	0.24	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-EXPLOSIVES

FIELD ID			G0044					G0044					G0044					G0044		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/6/2016					8/5/2015					8/18/2014		
			Result	Q	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.032	0.1	0.16	<	0.21	0.43	1.1	U	<	0.21	1.1	0.43	U	<	1.1	U
1,3-Dinitrobenzene	-	0 / 28	<	U	0.052	0.1	0.16	<	0.095	0.21	0.43	U	<	0.094	0.43	0.21	U	<	0.42	U
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.16	<	0.077	0.21	0.43	U	<	0.077	0.43	0.21	U	<	0.42	U
2,4-Dinitrotoluene	22.1	17 / 28	0.11	J	0.052	0.1	0.14	0.09	0.09	0.21	0.43	J	0.094	0.089	0.43	0.21	J	0.12	0.42	J
2,6-Dinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.14	<	0.069	0.21	0.21	U	<	0.069	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	0.373	4 / 28	<	U	0.031	0.1	0.16	<	0.054	0.13	0.21	U	0.072	0.054	0.21	0.13	J	0.057	0.21	J
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.092	0.21	0.43	U	<	0.091	0.43	0.21	U	<	0.42	U
3-Nitrotoluene	-	0 / 24	<	U	0.06	0.21	0.52	<	0.089	0.21	0.43	U	<	0.089	0.43	0.21	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.062	0.13	0.21	U	<	0.061	0.21	0.13	U	<	0.42	U
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.21	0.43	1.1	U	<	0.21	1.1	0.43	U	<	1.1	U
HMX	6.1	20 / 28	0.59		0.038	0.1	0.16	0.57	0.094	0.21	0.43		0.97	0.093	0.43	0.21		1.7	0.42	
MNX	0.15 J	1 / 18	<	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.38	2.1	0.38	U	<	2.1	U
Nitrobenzene	-	0 / 28	<	U	0.052	0.1	0.16	<	0.097	0.21	0.43	U	<	0.097	0.43	0.21	U	<	0.42	U
RDX	8.8	23 / 28	0.57		0.038	0.1	0.16	0.6	0.056	0.13	0.21		1.7	0.056	0.21	0.13		3.6	0.21	
Tetryl	-	0 / 26	<	U	0.052	0.1	0.16	<	0.085	0.21	0.26	U	<	0.084	0.26	0.21	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-EXPLOSIVES

FIELD ID			G0044			G0044			G0044			G0044			G0044			G0044		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009			3/17/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U
2,4-Dinitrotoluene	22.1	17 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	0.373	4 / 28	<	0.8	U	<	0.8	U	<	0.8	U	0.076	0.2	J	<	0.48	U	<	0.49	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U
HMX	6.1	20 / 28	1.8	0.8	J	0.43	0.8	J	0.15	0.8	J	0.24	0.4	J	<	0.48	U	<	0.49	U
MNX	0.15 J	1 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U
RDX	8.8	23 / 28	3.3	0.8	J	1.4	0.8	J	1	0.8		0.35	0.2		<	0.48	U	<	0.49	U
Tetryl	-	0 / 26	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-EXPLOSIVES

FIELD ID			G0044			G0044			G0044			G0044			G0044			G0044		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2007			3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/25/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.5	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U	<	0.30	U
1,3-Dinitrobenzene	-	0 / 28	<	0.5	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U	<	0.20	UJ
2,4,6-Trinitrotoluene	-	0 / 28	<	0.5	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U	<	0.25	U
2,4-Dinitrotoluene	22.1	17 / 28	<	0.5	U	<	0.48	U	0.45	0.48	J	0.78	0.44		1.1	0.39		0.51	0.20	
2,6-Dinitrotoluene	-	0 / 28	<	0.5	U	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.78	U
2-Amino-4,6-dinitrotoluene	0.373	4 / 28	<	0.5	U	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.31	U
2-Nitrotoluene	-	0 / 24	<	0.5	U	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.61	U
3-Nitrotoluene	-	0 / 24	<	0.5	U	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.5	U	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.52	U
4-Nitrotoluene	-	0 / 24	<	0.5	U	<	0.48	U	<	0.48	U	<	0.71	U	<	0.62	U	<	1.2	U
HMX	6.1	20 / 28	0.95	0.5		1.3	0.48	J	5.1	0.48		6.1	0.55		4.1	0.49		1.8	0.85	J
MNX	0.15 J	1 / 18	<	0.5	U	<	0.48	U	<	0.48	U	0.15	0.23	J		NA			NA	
Nitrobenzene	-	0 / 28	<	0.5	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U	<	0.35	U
RDX	8.8	23 / 28	1.1	0.5		2	0.48		7.8	0.48		8.8	0.23		6.8	0.2		4.7	0.50	J
Tetryl	-	0 / 26	<	0.5	U	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.82	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-EXPLOSIVES

FIELD ID			G0044			G0044			G0044			G0044			G0044			G0044		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/30/2001			6/15/2000			3/26/1999			6/24/1998			7/13/1994			6/21/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	22.1	17 / 28	0.51	0.8	J	1	1.1	J	1.02	0.8		1.01	0.500	J	5.01	NRL		5.70	NRL	
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	0.373	4 / 28	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ		NA			NA	
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ		NA			NA	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ		NA			NA	
HMX	6.1	20 / 28	0.86	1	J	0.4	0.8	J	0.361	0.8	J	<	0.500	UJ	<	0.563	U	<	0.563	U
MNX	0.15 J	1 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.817	U	<	0.817	U
RDX	8.8	23 / 28	3.7	0.8		1.8	0.8		1.14	0.8		<	1.00	UJ	0.86	NRL		0.779	NRL	
Tetryl	-	0 / 26	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-EXPLOSIVES

FIELD ID			G0044			G0044		
METHOD	Maximum	Detection	UW32			UW33		
COLLECT DATE	Detection	Frequency	8/25/1992			3/17/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 28	<	0.449	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 28	<	0.611	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.635	U	<	0.451	U
2,4-Dinitrotoluene	22.1	17 / 28	22.1	NRL		14.0	NRL	
2,6-Dinitrotoluene	-	0 / 28	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	0.373	4 / 28	0.373	NRL		<	0.5	U
2-Nitrotoluene	-	0 / 24		NA			NA	
3-Nitrotoluene	-	0 / 24		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24		NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA	
HMX	6.1	20 / 28	<	1.21	U	<	0.563	U
MNX	0.15 J	1 / 18		NA			NA	
Nitrobenzene	-	0 / 28	<	0.645	U	<	0.817	U
RDX	8.8	23 / 28	7.91	NRL		4.87	NRL	
Tetryl	-	0 / 26		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-EXPLOSIVES

FIELD ID			G0045					G0045					G0045					G0045				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/11/2020					6/6/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.085	0.2	0.21	<	U	0.089	0.21	0.22	<	U	0.21	0.42	1.1	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 28	<	U	0.037	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.093	0.21	0.42	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.045	0.1	0.11	<	U	0.047	0.11	0.12	<	U	0.17	0.42	0.42	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 28	<	U	0.028	0.081	0.1	<	U	0.029	0.084	0.11	<	U	0.088	0.21	0.42	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 28	<	U	0.04	0.081	0.1	<	U	0.042	0.084	0.11	<	U	0.068	0.21	0.21	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	U	0.051	0.1	0.11	<	U	0.053	0.11	0.12	<	U	0.053	0.13	0.21	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 24	<	UJ	0.086	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.09	0.21	0.42	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 24	<	UJ	0.2	0.4	0.4	<	U	0.21	0.42	0.42	<	U	0.21	0.42	0.42	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.058	0.12	0.15	<	U	0.061	0.13	0.16	<	U	0.061	0.13	0.21	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	UJ	0.1	0.4	0.41	<	U	0.11	0.42	0.43	<	U	0.21	0.42	1.1	<	U	0.09	0.2	0.51
HMX	0.776	1 / 28	<	U	0.088	0.2	0.21	<	U	0.092	0.21	0.22	<	U	0.092	0.21	0.42	<	U	0.029	0.1	0.15
MNX	-	0 / 18	<	U	0.16	0.4	2	<	U	0.16	0.42	2.1	<	U	0.16	0.42	2.1	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 28	<	U	0.092	0.2	0.21	<	U	0.096	0.21	0.22	<	U	0.096	0.21	0.42	<	U	0.051	0.1	0.15
RDX	-	0 / 28	<	U	0.052	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.17	0.42	0.42	<	U	0.037	0.1	0.15
Tetryl	-	0 / 26	<	U	0.032	0.1	0.11	<	U	0.033	0.11	0.12	<	U	0.083	0.21	0.25	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-EXPLOSIVES

FIELD ID			G0045					G0045					G0045					G0045		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/8/2016					8/15/2015					8/7/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.032	0.1	0.16	<	0.21	0.42	1.1	U	<	0.21	0.42	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 28	<	U	0.052	0.1	0.16	<	0.094	0.21	0.42	U	<	0.094	0.21	0.42	U	<	0.42	U
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.16	<	0.077	0.21	0.42	U	<	0.076	0.21	0.42	U	<	0.42	U
2,4-Dinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.14	<	0.089	0.21	0.42	U	<	0.088	0.21	0.42	U	<	0.42	U
2,6-Dinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.14	<	0.068	0.21	0.21	U	<	0.068	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	U	0.031	0.1	0.16	<	0.054	0.13	0.21	U	<	0.054	0.13	0.21	U	<	0.21	U
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.090	0.21	0.42	U	<	0.090	0.21	0.42	U	<	0.42	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.088	0.21	0.42	U	<	0.88	0.21	0.42	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.061	0.13	0.21	U	<	0.061	0.13	0.21	U	<	0.21	U
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.21	0.42	1.1	U	<	0.21	0.42	1.1	U	<	1	U
HMX	0.776	1 / 28	<	U	0.037	0.1	0.16	<	0.093	0.21	0.42	U	<	0.092	0.21	0.42	U	<	0.42	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.38	0.38	2.1	U	<	2.1	U
Nitrobenzene	-	0 / 28	<	U	0.052	0.1	0.16	<	0.096	0.21	0.42	U	<	0.096	0.21	0.42	U	<	0.42	U
RDX	-	0 / 28	<	U	0.037	0.1	0.16	<	0.055	0.13	0.21	U	<	0.055	0.31	0.13	U	<	0.21	U
Tetryl	-	0 / 26	<	U	0.052	0.1	0.16	<	0.084	0.21	0.25	U	<	0.084	0.21	0.25	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-EXPLOSIVES

FIELD ID			G0045			G0045			G0045			G0045			G0045			G0045		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/8/2013			3/7/2012			3/7/2011			3/3/2010			3/11/2009			3/14/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	0.776	1 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
RDX	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 26	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-EXPLOSIVES

FIELD ID			G0045			G0045			G0045			G0045			G0045			G0045		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2007			3/16/2006			3/17/2005			3/18/2004			3/20/2003			3/26/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.28	U	<	0.28	U
1,3-Dinitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.28	U	<	0.19	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.28	U	<	0.23	U
2,4-Dinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.19	U
2,6-Dinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.72	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.29	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.57	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.36	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.49	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.62	U	<	0.87	U	<	1.2	U
HMX	0.776	1 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.68	U	<	0.79	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.2	U		NA			NA	
Nitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.28	U	<	0.33	U
RDX	-	0 / 28	<	0.48	U	<	0.48	U	<	0.48	U	<	0.2	U	<	0.28	U	<	0.47	U
Tetryl	-	0 / 26	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.54	U	<	0.77	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-EXPLOSIVES

FIELD ID			G0045			G0045			G0045			G0045			G0045			G0045		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/27/2001			3/21/2000			3/31/1999			6/26/1998			7/17/1994			6/12/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 28	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
HMX	0.776	1 / 28	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	0.776	NRL		<	0.563	
MNX	-	0 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U
RDX	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 26	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-EXPLOSIVES

FIELD ID			G0045			G0045		
METHOD	Maximum	Detection	UW32			UW33		
COLLECT DATE	Detection	Frequency	8/19/1992			3/16/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 28	<	0.449	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 28	<	0.611	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.635	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 28	<	0.064	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 28	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.158	U	<	0.5	U
2-Nitrotoluene	-	0 / 24		NA			NA	
3-Nitrotoluene	-	0 / 24		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24		NA			NA	
4-Nitrotoluene	-	0 / 24		NA			NA	
HMX	0.776	1 / 28	<	1.21		<	0.563	U
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 28	<	0.645	U	<	0.817	U
RDX	-	0 / 28	<	1.17	U	<	0.412	U
Tetryl	-	0 / 26		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-EXPLOSIVES

FIELD ID			G0046			G0046			G0046			G0046			G0046			G0046			G0046		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/12/2013			40,975.00			3/7/2011			3/12/2010			3/9/2009			3/14/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 21	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 17				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
RDX	-	0 / 21				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
Tetryl	5.98	2 / 19				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-EXPLOSIVES

FIELD ID			G0046			G0046			G0046			G0046			G0046			G0046			G0046		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2007			3/28/2006			3/18/2005			3/23/2004			3/19/2003			3/25/2002			3/27/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.16	U	<	0.34	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.16	U	<	0.23	UJ	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.16	U	<	0.28	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.23	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.88	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.35	U	<	0.8	U
2-Nitrotoluene	-	0 / 17	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.69	U	<	0.8	U
3-Nitrotoluene	-	0 / 17	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.44	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.60	U	<	0.8	U
4-Nitrotoluene	-	0 / 17	<	0.5	U	<	0.48	U	<	0.48	U	<	0.98	U	<	0.5	U	<	1.4	U	<	0.8	U
HMX	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.76	U	<	0.39	U	<	0.96	U	<	1	U
MNX	-	0 / 10	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U		NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.16	U	<	0.40	U	<	0.8	U
RDX	-	0 / 21	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.16	U	<	0.57	U	<	0.8	U
Tetryl	5.98	2 / 19	<	0.5	U	<	0.48	U	<	0.48	U	<	0.6	U	<	0.31	U	<	0.94	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-EXPLOSIVES

FIELD ID			G0046			G0046			G0046			G0046			G0046			G0046			G0046		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/20/2000			3/30/1999			6/23/1998			10/4/1997			7/17/1994			6/22/1994			8/19/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 21	<	1.5	U	<	0.8	U	<	1.00	UJ	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 21	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 21	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	1	U	<	0.8	U	<	0.500	UJ	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 17	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.319	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 17	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.514	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	1	U	<	0.8	U	<	1.00	UJ	<	0.309	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 17	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.368	U		NA			NA			NA	
HMX	-	0 / 21	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 21	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	5.98	2 / 19	<	1.3	U	<	0.8	U	<	0.500	UJ	<	0.253	U	5.69	NRL		5.98	NRL			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-EXPLOSIVES

FIELD ID			G0046		
METHOD	Maximum	Detection	UW33		
COLLECT DATE	Detection	Frequency	3/20/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 21	<	0.425	U
1,3-Dinitrobenzene	-	0 / 21	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.451	U
2,4-Dinitrotoluene	-	0 / 21	<	0.26	U
2,6-Dinitrotoluene	-	0 / 21	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.5	U
2-Nitrotoluene	-	0 / 17		NA	
3-Nitrotoluene	-	0 / 17		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA	
4-Nitrotoluene	-	0 / 17		NA	
HMX	-	0 / 21	<	0.563	U
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 21	<	0.817	U
RDX	-	0 / 21	<	0.412	U
Tetryl	5.98	2 / 19		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-EXPLOSIVES

FIELD ID			G0047	G0047			G0047			G0047			G0047			G0047			G0047		
METHOD	Maximum	Detection		SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	11/19/2014	None			3/19/2013			3/8/2012			3/9/2011			3/16/2010			3/12/2009		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 21					<	0.8	UJ	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	0.19	1 / 21					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 21					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 21		**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	**Abandoned 2014**	**in 2014**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 17					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 17					<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 17					<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 21					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10					<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 21					<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	-	0 / 21					<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 19					<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-EXPLOSIVES

FIELD ID			G0047			G0047			G0047			G0047			G0047			G0047			G0047		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2008			3/15/2007			3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/22/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.16	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.16	U	<	0.16	U
2,4,6-Trinitrotoluene	0.19	1 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.17	U	0.19	0.16		<	0.20	U
2,4-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.25	U
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.49	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.42	U
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.5	U	<	1.0	U
HMX	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.42	U	<	0.39	U	<	0.68	U
MNX	-	0 / 10	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.17	U		NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.16	U	<	0.28	U
RDX	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.17	U	<	0.16	U	<	0.40	U
Tetryl	-	0 / 19	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.34	U	<	0.31	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-EXPLOSIVES

FIELD ID			G0047			G0047			G0047			G0047			G0047			G0047			G0047		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/26/2001			3/20/2000			3/31/1999			6/22/1998			10/4/1997			7/17/1994			6/22/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	0.19	1 / 21	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.368	U		NA			NA	
HMX	-	0 / 21	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.231	U	<	0.817	U	<	0.817	U
RDX	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.558	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 19	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-EXPLOSIVES

FIELD ID			G0047			G0047		
METHOD	Maximum	Detection	UW32			UW33		
COLLECT DATE	Detection	Frequency	8/19/1992			3/23/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 21	<	0.449	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 21	<	0.611	U	<	0.549	U
2,4,6-Trinitrotoluene	0.19	1 / 21	<	0.635	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 21	<	0.064	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 21	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.158	U	<	0.5	U
2-Nitrotoluene	-	0 / 17		NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA	
HMX	-	0 / 21	<	1.21	U	<	0.563	U
MNX	-	0 / 10		NA			NA	
Nitrobenzene	-	0 / 21	<	0.645	U	<	0.817	U
RDX	-	0 / 21	<	1.17	U	<	0.412	U
Tetryl	-	0 / 19		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-EXPLOSIVES

FIELD ID			G0048					G0048					G0048					G0048				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/13/2020					6/4/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	160	3 / 18	<	U	0.085	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.21	0.42	1.1	<	U	0.033	0.1	0.16
1,3-Dinitrobenzene	-	0 / 18	<	U	0.037	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.094	0.21	0.42	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	210	5 / 18	<	U	0.045	0.1	0.11	<	U	0.047	0.1	0.11	<	U	0.17	0.42	0.42	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 18	<	U	0.028	0.081	0.1	<	U	0.029	0.083	0.1	<	U	0.089	0.21	0.42	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	1.6 J	1 / 18	<	U	0.04	0.081	0.1	<	U	0.042	0.083	0.1	<	U	0.068	0.21	0.21	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	5.3	9 / 18	<	UJ	0.051	0.1	0.11	<	U	0.053	0.1	0.11	<	U	0.054	0.13	0.21	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 14	<	UJ	0.086	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.091	0.21	0.42	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 14	<	UJ	0.2	0.4	0.4	<	U	0.2	0.42	0.42	<	U	0.21	0.42	0.42	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	3.5 J	5 / 14	<	UJ	0.058	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.061	0.13	0.21	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 14	<	UJ	0.1	0.4	0.41	<	U	0.1	0.42	0.43	<	UJ	0.21	0.42	1.1	<	U	0.092	0.21	0.52
HMX	6.79	14 / 18	<	U	0.088	0.2	0.21	<	U	0.091	0.21	0.22	<	U	0.093	0.21	0.42	1		0.029	0.1	0.16
MNX	0.63 J	2 / 8	<	U	0.16	0.4	2	<	U	0.16	0.42	2.1	<	U	0.16	0.42	2.1	<	U	0.038	0.1	0.52
Nitrobenzene	-	0 / 18	<	U	0.092	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.097	0.21	0.42	<	U	0.052	0.1	0.16
RDX	22	15 / 18	<	U	0.052	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.17	0.42	0.42	0.49		0.038	0.1	0.16
Tetryl	-	0 / 16	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.084	0.21	0.25	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-EXPLOSIVES

FIELD ID			G0048			G0048			G0048			G0048			G0048			G0048			G0048		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			None			None			3/13/2012			3/10/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	160	3 / 18																<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 18																<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	210	5 / 18																<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 18																<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	1.6 J	1 / 18	**No 2017 Sample**			**No 2016 Sample**			**No 2015 Sample**			**No 2014 Sample**			**No 2013 Sample**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	5.3	9 / 18	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 14																<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 14																<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	3.5 J	5 / 14																<	1.4	U	<	0.8	U
4-Nitrotoluene	-	0 / 14																<	0.8	U	<	0.8	U
HMX	6.79	14 / 18																1.3	0.8	J	1.5	0.8	
MNX	0.63 J	2 / 8																<	0.8	U	0.63	0.8	J
Nitrobenzene	-	0 / 18																<	0.8	U	<	0.8	U
RDX	22	15 / 18																2.4	0.8	J	4.3	0.8	
Tetryl	-	0 / 16																<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-EXPLOSIVES

FIELD ID			G0048			G0048			G0048			G0048			G0048			G0048			G0048		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/17/2010			3/18/2009			None			None			None			None			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	160	3 / 18	<	0.99	U	<	0.48	U															
1,3-Dinitrobenzene	-	0 / 18	<	0.4	U	<	0.48	U															
2,4,6-Trinitrotoluene	210	5 / 18	3.4	0.4		<	0.48	U															
2,4-Dinitrotoluene	-	0 / 18	<	0.4	U	<	0.48	U															
2,6-Dinitrotoluene	1.6 J	1 / 18	<	0.2	U	<	0.48	U	**No 2008 Sample**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**		
2-Amino-4,6-dinitrotoluene	5.3	9 / 18	2.3	0.2		<	0.48	U	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**		
2-Nitrotoluene	-	0 / 14	<	0.4	U	<	0.48	U															
3-Nitrotoluene	-	0 / 14	<	0.4	U	<	0.48	U															
4-Amino-2,6-dinitrotoluene	3.5 J	5 / 14	3.3	0.2		<	0.48	U															
4-Nitrotoluene	-	0 / 14	<	0.99	U	<	0.48	U															
HMX	6.79	14 / 18	4.3	0.4		0.71	0.48																
MNX	0.63 J	2 / 8	0.45	2	J	<	0.48	U															
Nitrobenzene	-	0 / 18	<	0.4	U	<	0.48	U															
RDX	22	15 / 18	19	0.2		2.3	0.48																
Tetryl	-	0 / 16	<	0.24	U	<	0.48	U															

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-EXPLOSIVES

FIELD ID			G0048			G0048			G0048			G0048			G0048			G0048			G0048		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51		
COLLECT DATE	Detection	Frequency	None			3/22/2002			3/23/2001			3/21/2000			4/2/1999			6/18/1998			10/3/1997		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	160	3 / 18				<	0.35	U	160	16		<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 18				<	0.23	U	<	4	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U
2,4,6-Trinitrotoluene	210	5 / 18				<	0.29	U	210	16		<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 18				<	0.23	U	<	4	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U
2,6-Dinitrotoluene	1.6 J	1 / 18	**No 2003 Sample**			<	0.90	U	1.6	4	J	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	5.3	9 / 18	**Well Dry**			1.4	0.36		5.3	4		1.2	1		0.41	0.8	J	<	0.500	U	0.548	0.173	
2-Nitrotoluene	-	0 / 14				<	0.71	U	<	4	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U
3-Nitrotoluene	-	0 / 14				<	0.45	U	<	4	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	3.5 J	5 / 14				1.6	0.61		3.5	4	J	0.95	1	J	0.39	0.8	J	<	1.00	U	<	0.309	U
4-Nitrotoluene	-	0 / 14				<	1.5	U	<	4	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U
HMX	6.79	14 / 18				2.6	0.99		3.3	5	J	3.2	0.8		4.9	0.8		2.95	0.500		3.15	0.16	
MNX	0.63 J	2 / 8					NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 18				<	0.41	U	<	4	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U
RDX	22	15 / 18				14	5.8		11	4		6.8	0.8		11	0.8		10.2	1.00		12.4	0.558	
Tetryl	-	0 / 16				<	0.96	U	<	4	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-EXPLOSIVES

FIELD ID			G0048			G0048			G0048			G0048		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW33		
COLLECT DATE	Detection	Frequency	7/16/1994			6/23/1994			9/1/1992			3/23/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	160	3 / 18	<	0.425	U	1.58	NRL		<	0.449	U	0.77	NRL	
1,3-Dinitrobenzene	-	0 / 18	<	0.549	U	<	0.549	U	<	0.611	U	<	0.549	U
2,4,6-Trinitrotoluene	210	5 / 18	1.65	NRL		1.58	NRL		<	0.635	U	24.0	NRL	
2,4-Dinitrotoluene	-	0 / 18	<	0.26	U	<	0.26	U	<	0.064	U	<	0.26	U
2,6-Dinitrotoluene	1.6 J	1 / 18	<	0.26	U	<	0.26	U	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	5.3	9 / 18	0.56	NRL		0.56	NRL		0.287	NRL		<	0.5	U
2-Nitrotoluene	-	0 / 14		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 14		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	3.5 J	5 / 14		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 14		NA			NA			NA			NA	
HMX	6.79	14 / 18	1.76	NRL		1.84	NRL		<	1.21	U	6.79	NRL	
MNX	0.63 J	2 / 8		NA			NA			NA			NA	
Nitrobenzene	-	0 / 18	<	0.817	U	<	0.817	U	<	0.645	U	<	0.817	U
RDX	22	15 / 18	19.0	NRL		22.0	NRL		4.75	NRL		22.0	NRL	
Tetryl	-	0 / 16	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-EXPLOSIVES

FIELD ID			G0049					G0049					G0049					G0049				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/13/2020					6/4/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	6.99	13 / 29	<	U	0.084	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.22	0.43	1.1	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 29	<	U	0.037	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.096	0.22	0.43	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	1.9	6 / 29	<	U	0.045	0.1	0.11	<	U	0.047	0.11	0.12	<	U	0.17	0.43	0.43	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	0.313	2 / 29	<	U	0.027	0.08	0.1	<	U	0.029	0.084	0.11	<	U	0.091	0.22	0.43	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	0.35 J	1 / 29	<	U	0.04	0.08	0.1	<	U	0.042	0.084	0.11	<	U	0.07	0.22	0.22	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	9.72	14 / 29	<	UJ	0.051	0.1	0.11	<	U	0.053	0.11	0.12	<	U	0.055	0.13	0.22	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 25	<	UJ	0.085	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.093	0.22	0.43	<	U	0.091	0.21	0.51
3-Nitrotoluene	-	0 / 25	<	UJ	0.19	0.4	0.4	<	U	0.21	0.42	0.42	<	U	0.21	0.43	0.43	<	U	0.059	0.21	0.51
4-Amino-2,6-dinitrotoluene	0.57 J	4 / 25	<	UJ	0.058	0.12	0.15	<	U	0.061	0.13	0.16	<	U	0.063	0.13	0.22	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 25	<	UJ	0.1	0.4	0.41	<	U	0.11	0.42	0.43	<	UJ	0.22	0.43	1.1	<	U	0.091	0.21	0.51
HMX	5.27	2 / 29	<	U	0.087	0.2	0.21	<	U	0.092	0.21	0.22	<	U	0.095	0.22	0.43	<	U	0.029	0.1	0.15
MNX	-	0 / 18	<	U	0.15	0.4	2	<	U	0.16	0.42	2.1	<	U	0.17	0.43	2.2	<	U	0.037	0.1	0.51
Nitrobenzene	1.23	1 / 29	<	U	0.091	0.2	0.21	<	U	0.096	0.21	0.22	<	U	0.099	0.22	0.43	<	U	0.051	0.1	0.15
RDX	0.503	1 / 29	<	U	0.051	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.17	0.43	0.43	<	U	0.037	0.1	0.15
Tetryl	-	0 / 27	<	U	0.032	0.1	0.11	<	U	0.033	0.11	0.12	<	U	0.086	0.22	0.26	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-EXPLOSIVES

FIELD ID			G0049					G0049					G0049					G0049		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/15/2016					8/14/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	6.99	13 / 29	<	U	0.032	0.1	0.16	<	0.22	0.45	1.1	U	<	0.22	0.45	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 29	<	U	0.052	0.1	0.16	<	0.099	0.22	0.45	U	<	0.10	0.22	0.45	U	<	0.42	U
2,4,6-Trinitrotoluene	1.9	6 / 29	<	U	0.052	0.1	0.16	<	0.081	0.22	0.45	U	<	0.081	0.22	0.45	U	<	0.42	U
2,4-Dinitrotoluene	0.313	2 / 29	<	U	0.052	0.1	0.14	<	0.094	0.22	0.45	U	<	0.094	0.22	0.45	U	<	0.42	U
2,6-Dinitrotoluene	0.35 J	1 / 29	<	U	0.052	0.1	0.14	<	0.072	0.22	0.22	U	<	0.072	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	9.72	14 / 29	<	U	0.031	0.1	0.16	<	0.057	0.13	0.22	U	<	0.057	0.13	0.22	U	<	0.21	U
2-Nitrotoluene	-	0 / 25	<	U	0.092	0.21	0.52	<	0.096	0.22	0.45	U	<	0.096	0.22	0.45	U	<	0.42	U
3-Nitrotoluene	-	0 / 25	<	U	0.059	0.21	0.52	<	0.093	0.22	0.45	U	<	0.094	0.22	0.45	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	0.57 J	4 / 25	<	U	0.052	0.1	0.16	<	0.065	0.13	0.22	U	<	0.065	0.13	0.22	U	<	0.21	U
4-Nitrotoluene	-	0 / 25	<	U	0.092	0.21	0.52	<	0.22	0.45	1.1	U	<	0.22	0.45	1.1	U	<	1	U
HMX	5.27	2 / 29	<	U	0.037	0.1	0.16	<	0.098	0.22	0.45	U	<	0.098	0.22	0.45	U	<	0.42	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.40	0.40	2.2	U	<	0.40	0.40	2.2	U	<	2.1	U
Nitrobenzene	1.23	1 / 29	<	U	0.052	0.1	0.16	<	0.10	0.22	0.45	U	<	0.10	0.22	0.45	U	<	0.42	U
RDX	0.503	1 / 29	<	U	0.037	0.1	0.16	<	0.059	0.13	0.22	U	<	0.06	0.13	0.22	U	<	0.21	U
Tetryl	-	0 / 27	<	U	0.052	0.1	0.16	<	0.089	0.22	0.27	U	<	0.089	0.22	0.27	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-EXPLOSIVES

FIELD ID			G0049			G0049			G0049			G0049			G0049			G0049			G0049		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/13/2012			3/10/2011			3/18/2010			3/16/2009			3/18/2008			3/15/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	6.99	13 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.5	U	0.84	0.54	
1,3-Dinitrobenzene	-	0 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
2,4,6-Trinitrotoluene	1.9	6 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
2,4-Dinitrotoluene	0.313	2 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
2,6-Dinitrotoluene	0.35 J	1 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.54	U
2-Amino-4,6-dinitrotoluene	9.72	14 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	1.5	0.54	
2-Nitrotoluene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
3-Nitrotoluene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
4-Amino-2,6-dinitrotoluene	0.57 J	4 / 25	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.54	U
4-Nitrotoluene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.5	U	<	0.54	U
HMX	5.27	2 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.5	U	<	0.54	U
Nitrobenzene	1.23	1 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.54	U
RDX	0.503	1 / 29	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.54	U
Tetryl	-	0 / 27	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.5	U	<	0.54	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-EXPLOSIVES

FIELD ID			G0049			G0049			G0049			G0049			G0049			G0049			G0049		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2006			3/16/2005			3/18/2004			3/18/2003			3/21/2002			3/23/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	6.99	13 / 29	0.81	0.49		0.46	0.48	J	1.4	0.22		<	0.67	U	2.3	0.30		4.8	0.8		1.7	0.8	
1,3-Dinitrobenzene	-	0 / 29	<	0.49	U	<	0.48	U	<	0.22	U	<	0.67	U	<	0.20	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	1.9	6 / 29	<	0.49	U	<	0.48	U	0.23	0.22		<	0.67	U	<	0.37	U	<	0.8	U	1.4	1.5	J
2,4-Dinitrotoluene	0.313	2 / 29	<	0.49	U	<	0.48	U	<	0.43	U	<	1.3	U	<	0.20	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	0.35 J	1 / 29	<	0.49	U	<	0.48	U	<	0.43	U	<	1.3	U	<	0.78	U	0.35	0.8	J	<	1.1	U
2-Amino-4,6-dinitrotoluene	9.72	14 / 29	1.3	0.49		1.5	0.48		2	0.43		1.1	1.3	J	2.1	0.31		2	0.8		2.6	1	
2-Nitrotoluene	-	0 / 25	<	0.49	U	<	0.48	U	<	0.43	U	<	1.3	U	<	0.61	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 25	<	0.49	U	<	0.48	U	<	0.43	U	<	1.3	U	<	0.39	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	0.57 J	4 / 25	<	0.49	U	<	0.48	U	<	0.43	U	<	1.3	U	0.33	0.52	J	0.32	0.8	J	0.57	1	J
4-Nitrotoluene	-	0 / 25	<	0.49	U	<	0.48	U	<	0.69	U	<	2.1	U	<	1.2	U	<	0.8	U	<	1.1	U
HMX	5.27	2 / 29	<	0.49	U	0.3	0.48	J	<	0.54	U	<	1.6	U	<	0.85	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.49	U	<	0.48	U	<	0.22	U		NA			NA			NA			NA	
Nitrobenzene	1.23	1 / 29	<	0.49	U	<	0.48	U	<	0.22	U	<	0.67	U	<	0.35	U	<	0.8	U	<	0.8	U
RDX	0.503	1 / 29	<	0.49	U	<	0.48	U	<	0.22	U	<	0.67	U	<	0.50	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 27	<	0.49	U	<	0.48	U	<	0.43	U	<	1.3	U	<	0.82	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-EXPLOSIVES

FIELD ID			G0049			G0049			G0049			G0049			G0049			G0049			G0049		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW51			UW33			UW33			UW32			UW33		
COLLECT DATE	Detection	Frequency	4/2/1999			6/18/1998			10/3/1997			7/16/1994			6/20/1994			8/24/1992			3/26/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	6.99	13 / 29	<	0.8	U	2.56	1.00		2.30	0.125		3.71	NRL		4.86	NRL		5.67	NRL		6.99	NRL	
1,3-Dinitrobenzene	-	0 / 29	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	1.1	U
2,4,6-Trinitrotoluene	1.9	6 / 29	<	0.8	U	<	1.00	U	0.772	0.29		0.882	NRL		1.28	NRL		1.9	NRL		<	1.88	U
2,4-Dinitrotoluene	0.313	2 / 29	<	0.8	U	<	0.500	U	0.313	0.233		<	0.26	U	<	0.26	U	0.118	NRL		<	0.26	U
2,6-Dinitrotoluene	0.35 J	1 / 29	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	9.72	14 / 29	9.72	0.8		1.56	0.500		0.963	0.173		1.06	NRL		1.23	NRL		0.722	NRL		<	0.5	U
2-Nitrotoluene	-	0 / 25	<	0.8	U	<	1.00	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 25	<	0.8	U	<	1.00	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	0.57 J	4 / 25	<	0.8	U	<	1.00	U	0.345	0.309			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 25	<	0.8	U	<	1.00	U	<	0.368	U		NA			NA			NA			NA	
HMX	5.27	2 / 29	<	0.8	U	<	0.500	U	<	0.16	U	5.27	NRL		<	0.563	U	<	1.21	U	<	0.563	U
MNX	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	1.23	1 / 29	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U	<	0.817	U	1.23	NRL		<	0.817	U
RDX	0.503	1 / 29	<	0.8	U	<	1.00	U	<	0.558	U	0.503	NRL		<	0.412	U	<	1.17	U	<	0.412	U
Tetryl	-	0 / 27	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0052-EXPLOSIVES

FIELD ID			G0052			G0052			G0052			G0052			G0052			G0052			G0052		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/23/2005			3/16/2004			3/25/2003			3/20/2002			3/26/2001			3/16/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 10				<	0.48	U	<	0.23	U	<	0.29	U	<	0.33	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 10				<	0.48	U	<	0.23	U	<	0.29	U	<	0.22	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 10				<	0.48	U	<	0.23	U	<	0.29	U	<	0.27	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	0.072	1 / 10				<	0.48	U	<	0.44	U	<	0.57	U	<	0.22	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 10	**Abandoned**			<	0.48	U	<	0.44	U	<	0.57	U	<	0.85	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.25	1 / 10	**2005**			<	0.48	U	<	0.44	U	<	0.57	U	<	0.34	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.44	U	<	0.57	U	<	0.67	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.44	U	<	0.57	U	<	0.42	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 8				<	0.48	U	<	0.44	U	<	0.57	U	<	0.57	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.72	U	<	0.92	U	<	1.4	U	<	0.8	U	<	1.1	U
HMX	-	0 / 10				<	0.48	U	<	0.56	U	<	0.72	U	<	0.93	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.48	U	<	0.23	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 10				<	0.48	U	<	0.23	U	<	0.29	U	<	0.38	U	<	0.8	U	<	0.8	U
RDX	-	0 / 10				<	0.48	U	<	0.23	U	<	0.29	U	<	0.55	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 8				<	0.48	U	<	0.44	U	<	0.57	U	<	0.90	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0052-EXPLOSIVES

FIELD ID			G0052			G0052			G0052			G0052		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW32			UW33		
COLLECT DATE	Detection	Frequency	3/26/1999			6/25/1998			8/23/1992			3/22/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.449	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.611	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.635	U	<	0.451	U
2,4-Dinitrotoluene	0.072	1 / 10	<	0.8	U	<	0.500	U	0.072	NRL		<	0.26	U
2,6-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.074	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	0.25	1 / 10	<	0.8	U	<	0.500	U	0.25	NRL		<	0.5	U
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA	
HMX	-	0 / 10	<	0.8	U	<	0.500	U	<	1.21	U	<	0.563	U
MNX	-	0 / 2		NA			NA			NA			NA	
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.645	U	<	0.817	U
RDX	-	0 / 10	<	0.8	U	<	1.00	U	<	1.17	U	<	0.412	U
Tetryl	-	0 / 8	<	0.8	U	<	0.500	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063-EXPLOSIVES

FIELD ID			G0063			G0063			G0063			G0063			G0063			G0063			G0063		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/12/2013			3/5/2012			3/7/2011			3/1/2010			3/6/2009			3/12/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 17	**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	**in 2014 through 2021**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 15				<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	5.3	4 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	UJ	<	0.48	U
MNX	5.2	2 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
RDX	27	6 / 17				<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 15				<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063-EXPLOSIVES

FIELD ID			G0063			G0063			G0063			G0063			G0063			G0063			G0063		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2007			3/29/2006			3/18/2005			3/18/2004			3/24/2003			3/21/2002			3/27/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.22	U	<	0.38	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.22	U	<	0.26	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.22	U	<	0.32	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	0.26	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	0.99	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	0.40	U	<	0.8	U
2-Nitrotoluene	-	0 / 15	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	0.78	U	<	0.8	U
3-Nitrotoluene	-	0 / 15	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	0.50	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 15	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	0.67	U	<	0.8	U
4-Nitrotoluene	-	0 / 15	<	0.48	U	<	0.48	U	<	0.48	U	<	0.7	U	<	0.7	U	<	1.6	U	<	0.8	U
HMX	5.3	4 / 17	<	0.48	U	<	0.48	U	0.82	0.48		5.3	0.55		1.6	0.55		0.46	1.1	J	<	1	U
MNX	5.2	2 / 10	<	0.48	U	<	0.48	U	0.53	0.48		5.2	0.22			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.22	U	<	0.22	U	<	0.45	U	<	0.8	U
RDX	27	6 / 17	<	0.48	U	2.9	0.48		8.5	0.48		27	2.2		9.6	0.22		3.0	0.64		0.73	0.8	J
Tetryl	-	0 / 15	<	0.48	U	<	0.48	U	<	0.48	U	<	0.43	U	<	0.43	U	<	1.1	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063-EXPLOSIVES

FIELD ID			G0063			G0063			G0063			G0063		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/20/2000			3/30/1999			9/2/1992			3/15/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 17	<	0.8	U	<	0.8	U	<	0.45	U	<	0.43	U
1,3-Dinitrobenzene	-	0 / 17	<	0.8	U	<	0.8	U	<	0.61	U	<	0.55	U
2,4,6-Trinitrotoluene	-	0 / 17	<	1.5	U	<	0.8	U	<	0.64	U	<	0.45	U
2,4-Dinitrotoluene	-	0 / 17	<	1.1	U	<	0.8	U	<	0.07	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 17	<	1.1	U	<	0.8	U	<	0.07	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	1	U	<	0.8	U	<	0.16	U		NA	
2-Nitrotoluene	-	0 / 15	<	1.1	U	<	0.8	U		NA			NA	
3-Nitrotoluene	-	0 / 15	<	1.1	U	<	0.8	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 15	<	1	U	<	0.8	U		NA			NA	
4-Nitrotoluene	-	0 / 15	<	1.1	U	<	0.8	U		NA			NA	
HMX	5.3	4 / 17	<	0.8	U	<	0.8	U	<	1.21	U	<	0.56	U
MNX	5.2	2 / 10		NA			NA			NA			NA	
Nitrobenzene	-	0 / 17	<	0.8	U	<	0.8	U	<	0.65	U	<	0.82	U
RDX	27	6 / 17	<	0.8	U	<	0.8	U	<	1.17	U	<	0.41	U
Tetryl	-	0 / 15	<	1.3	U	<	0.8	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-EXPLOSIVES

FIELD ID			G0066R					G0066R					G0066R					G0066R				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/13/2020					6/7/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	390	20 / 23	1.2	J	0.083	0.2	0.21	0.095	J	0.09	0.21	0.22	<	U	0.2	0.39	0.98	0.48	J	0.032	0.1	0.15
1,3-Dinitrobenzene	2.31	2 / 23	<	U	0.037	0.099	0.11	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	820	19 / 23	0.46		0.045	0.099	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39	0.33	J	0.051	0.1	0.15
2,4-Dinitrotoluene	24	14 / 23	0.19	J	0.027	0.079	0.1	<	U	0.029	0.086	0.11	<	U	0.082	0.2	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	5	7 / 23	<	U	0.04	0.079	0.1	<	U	0.043	0.086	0.11	<	U	0.063	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	87	22 / 23	1.4	J	0.05	0.099	0.11	0.85		0.054	0.11	0.12	0.33		0.05	0.12	0.2	0.87	J	0.031	0.1	0.15
2-Nitrotoluene	2.5	1 / 19	<	UJ	0.085	0.2	0.21	<	U	0.091	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 19	<	UJ	0.19	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	55 J	16 / 19	1.2	J	0.057	0.12	0.15	0.46		0.062	0.13	0.16	<	UJ	0.057	0.12	0.2	0.76	J	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 19	<	UJ	0.099	0.4	0.41	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98	<	U	0.09	0.2	0.51
HMX	79.2	19 / 23	0.77	J	0.087	0.2	0.21	2.3	J	0.094	0.21	0.22	<	U	0.086	0.2	0.39	0.2	J	0.029	0.1	0.15
MNX	1.9 J	3 / 13	<	U	0.15	0.4	2	<	U	0.16	0.43	2.1	<	U	0.15	0.39	2	<	U	0.037	0.1	0.51
Nitrobenzene	19.6	4 / 23	<	U	0.09	0.2	0.21	<	U	0.097	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.051	0.1	0.15
RDX	103	21 / 23	1.4	J	0.051	0.2	0.21	0.51		0.055	0.21	0.22	<	U	0.15	0.39	0.39	<	U	0.037	0.1	0.15
Tetryl	0.32 J	2 / 21	<	U	0.032	0.099	0.11	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
*G0066 was abandoned and replaced by G0066R in 2010.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-EXPLOSIVES

FIELD ID			G0066R					G0066R					G0066R					G0066R		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2017					8/8/2016					8/10/2015					8/11/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	390	20 / 23	0.99	J	0.033	0.1	0.16	<	2.2	4.4	11	U	0.39	0.21	0.42	1.1	J	4.4	1	
1,3-Dinitrobenzene	2.31	2 / 23	<	U	0.052	0.1	0.16	<	0.99	2.2	4.4	U	<	0.093	0.21	0.42	U	<	0.42	U
2,4,6-Trinitrotoluene	820	19 / 23	0.84		0.052	0.1	0.16	<	0.81	2.2	4.4	U	1.6	0.076	0.21	0.42		3.6	0.42	
2,4-Dinitrotoluene	24	14 / 23	0.14		0.052	0.1	0.14	<	0.93	2.2	4.4	U	0.30	0.088	0.21	0.42	J	0.18	0.42	J
2,6-Dinitrotoluene	5	7 / 23	<	U	0.052	0.1	0.14	<	0.72	2.2	2.2	U	<	0.068	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	87	22 / 23	2		0.031	0.1	0.16	<	0.56	1.3	2.2	U	6.1	0.053	0.13	0.21		6.5	0.21	
2-Nitrotoluene	2.5	1 / 19	<	U	0.092	0.21	0.52	<	0.95	2.2	4.4	U	<	0.090	0.21	0.42	U	<	0.42	U
3-Nitrotoluene	-	0 / 19	<	U	0.06	0.21	0.52	<	0.93	2.2	4.4	U	<	0.088	0.21	0.42	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	55 J	16 / 19	1.8		0.052	0.1	0.16	<	0.64	1.3	2.2	U	6.6	0.061	0.13	0.21		6.4	0.21	
4-Nitrotoluene	-	0 / 19	<	U	0.092	0.21	0.52	<	2.2	4.4	11	U	<	0.21	0.21	1.1	U	<	1	U
HMX	79.2	19 / 23	1.9	J	0.038	0.1	0.16	<	0.97	2.2	4.4	U	<	0.092	0.21	0.42	U	1.7	0.42	J
MNX	1.9 J	3 / 13	<	U	0.029	0.1	0.52	<	4.0	4.0	22	U	0.70	0.38	0.38	2.1	J	1.9	2.1	J
Nitrobenzene	19.6	4 / 23	<	U	0.052	0.1	0.16	<	1.0	2.2	4.4	U	<	0.096	0.21	0.42	U	0.13	0.42	J
RDX	103	21 / 23	0.86		0.038	0.1	0.16	0.72	0.58	1.3	2.2	J	0.39	0.055	0.13	0.21	J	1.5	0.21	
Tetryl	0.32 J	2 / 21	0.086	J	0.052	0.1	0.16	<	0.88	2.2	2.7	U	<	0.084	0.21	0.25	U	<	0.25	U

Notes:
*G0066 was abandoned and replaced by G0066R in 2010.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-EXPLOSIVES

FIELD ID			G0066R			G0066R			G0066R			G0066			G0066			G0066			G0066		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/21/2013			3/15/2012			3/10/2011			3/17/2010			3/12/2009			None			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	390	20 / 23	17.1	0.8	J	<	0.8	UJ	41.2	0.8		0.34	0.99	J	37	0.48							
1,3-Dinitrobenzene	2.31	2 / 23	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U						
2,4,6-Trinitrotoluene	820	19 / 23	24.2	0.8	J	<	0.8	UJ	24.2	0.8		9.1	0.4	J	160	2.5	J	**No 2008 Sample**			**No 2007 Sample**		
2,4-Dinitrotoluene	24	14 / 23	<	0.8	U	<	0.8	UJ	0.57	0.8	J	<	0.4	U	<	0.48	U	**Well Dry**			**Well Dry**		
2,6-Dinitrotoluene	5	7 / 23	<	0.8	U	<	0.8	UJ	1.2	0.8		<	0.2	U	0.72	0.48							
2-Amino-4,6-dinitrotoluene	87	22 / 23	13	0.8	J	0.61	0.8	J	26.2	0.8		13	0.2	J	23	0.48							
2-Nitrotoluene	2.5	1 / 19	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U						
3-Nitrotoluene	-	0 / 19	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U						
4-Amino-2,6-dinitrotoluene	55 J	16 / 19	8.4	1.4	J	<	1.4	UJ	28.8	0.8		12	0.2	J	25	0.48							
4-Nitrotoluene	-	0 / 19	<	0.8	U	<	0.8	UJ	<	0.8	U	<	1	U	<	0.48	U						
HMX	79.2	19 / 23	5.6	0.8	J	6.3	0.8	J	1.7	0.8	J	2.8	0.4	J	2.1	0.48							
MNX	1.9 J	3 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	2	U	0.51	0.48							
Nitrobenzene	19.6	4 / 23	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U						
RDX	103	21 / 23	0.72	0.8	J	2	0.8	J	1.9	0.8		1.3	0.2	J	16	0.48							
Tetryl	0.32 J	2 / 21	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U						

Notes:
*G0066 was abandoned and replaced by G0066R in 2010.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-EXPLOSIVES

FIELD ID			G0066			G0066			G0066			G0066			G0066			G0066			G0066		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			3/19/2003			3/25/2002			3/26/2001			3/20/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	390	20 / 23										0.71	0.2	J	83	3.3	J	390	40		83	40	
1,3-Dinitrobenzene	2.31	2 / 23										<	0.2	U	<	0.22	UJ	<	2	U	<	0.8	U
2,4,6-Trinitrotoluene	820	19 / 23	**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			120	20	J	210	28	J	630	40		450	75	
2,4-Dinitrotoluene	24	14 / 23	**Well Dry**			**Well Dry**			**Well Dry**			2.4	0.39	J	3.4	0.22	J	11	2		9.7	1.1	
2,6-Dinitrotoluene	5	7 / 23										1.1	0.39	J	1.8	0.86	J	<	2	U	2.7	1.1	
2-Amino-4,6-dinitrotoluene	87	22 / 23										16	0.39	J	17	0.35	J	22	2		34	50	J
2-Nitrotoluene	2.5	1 / 19										<	0.39	U	<	0.68	U	2.5	2		<	1.1	U
3-Nitrotoluene	-	0 / 19										<	0.39	U	<	0.43	U	<	0.8		<	1.1	U
4-Amino-2,6-dinitrotoluene	55 J	16 / 19										29	3.9	J	29	5.8	J	17	1.6		18	1	JE
4-Nitrotoluene	-	0 / 19										<	0.62	U	<	1.4	U	<	0.8		<	1.1	U
HMX	79.2	19 / 23										5.7	0.49	J	7.1	0.94	J	6.2	2		5.1	0.8	
MNX	1.9 J	3 / 13											NA			NA			NA			NA	
Nitrobenzene	19.6	4 / 23										<	0.2	U	<	0.39	U	<	2	U	9.4	0.8	
RDX	103	21 / 23										14	2	J	30	5.5	J	18	8		23	40	J
Tetryl	0.32 J	2 / 21										<	0.39	U	0.32	0.91	J	<	8	U	<	1.3	U

Notes:
*G0066 was abandoned and replaced by G0066R in 2010.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-EXPLOSIVES

FIELD ID			G0066			G0066			G0066			G0066			G0066			G0066		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW32			UW33		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998			7/17/1994			6/20/1994			10/13/1992			8/19/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	390	20 / 23	70.3	4		69.6	1.00	J	130	NRL		130	NRL		190	NRL		180	NRL	
1,3-Dinitrobenzene	2.31	2 / 23	<	4	U	<	0.500	UJ	1.28	NRL		<	11	U	<	0.611	U	2.31	NRL	
2,4,6-Trinitrotoluene	820	19 / 23	257	16		219	50.00	J	400	NRL		420	NRL		750	NRL		820	NRL	
2,4-Dinitrotoluene	24	14 / 23	6.62	4		8.81	0.500	J	10.0	NRL		<	13	U	20.0	NRL		24.0	NRL	
2,6-Dinitrotoluene	5	7 / 23	2.4	4	J	<	0.500	UJ	5.00	NRL		<	5.2	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	87	22 / 23	45.4	4		47.0	0.500	J	69.0	NRL		66.0	NRL		81.0	NRL		87.0	NRL	
2-Nitrotoluene	2.5	1 / 19	<	4	U	<	1.00	UJ		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 19	<	4	U	<	1.00	UJ		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	55 J	16 / 19	46.7	4		55.0	1.00	J		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 19	<	4	U	<	1.00	UJ		NA			NA			NA			NA	
HMX	79.2	19 / 23	3.05	4	J	6.13	0.500	J	<	5.6	U	7.97	NRL		13.0	NRL		79.2	NRL	
MNX	1.9 J	3 / 13		NA			NA			NA			NA			NA			NA	
Nitrobenzene	19.6	4 / 23	19.6	4		<	0.500	UJ	1.25	NRL		<	41	U	<	0.645	U	<	0.645	U
RDX	103	21 / 23	23.4	4		6.63	1.00	J	55.0	NRL		54.0	NRL		103	NRL		96.4	NRL	
Tetryl	0.32 J	2 / 21	<	4	U	<	0.500	UJ	<	12	U	<	24	U		NA			NA	

Notes:
*G0066 was abandoned and replaced by G0066R in 2010.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-EXPLOSIVES

FIELD ID			G0067					G0067					G0067					G0067				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/13/2020					6/8/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 25	<	U	0.085	0.2	0.21	<	U	0.091	0.22	0.23	<	U	0.2	0.4	0.99	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 25	<	U	0.037	0.1	0.11	<	U	0.04	0.11	0.12	<	U	0.088	0.2	0.4	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	0.85	1 / 25	<	U	0.045	0.1	0.11	<	U	0.049	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 25	<	U	0.028	0.081	0.1	<	U	0.03	0.086	0.11	<	U	0.083	0.2	0.4	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 25	<	U	0.041	0.081	0.1	<	U	0.043	0.086	0.11	<	U	0.064	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 25	<	U	0.051	0.1	0.11	<	U	0.055	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 21	<	UJ	0.086	0.2	0.21	<	U	0.092	0.22	0.23	<	UJ	0.084	0.2	0.4	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 21	<	UJ	0.2	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.19	0.4	0.4	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	U	0.058	0.12	0.15	<	U	0.062	0.13	0.16	<	U	0.057	0.12	0.2	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 21	<	UJ	0.1	0.4	0.41	<	U	0.11	0.43	0.44	<	UJ	0.2	0.4	0.99	<	U	0.093	0.21	0.53
HMX	0.47 J	3 / 25	<	U	0.089	0.2	0.21	<	U	0.095	0.22	0.23	<	U	0.087	0.2	0.4	0.44		0.029	0.11	0.16
MNX	0.15 J	1 / 14	<	U	0.16	0.4	2	<	U	0.17	0.43	2.2	<	U	0.15	0.4	2	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 25	<	U	0.092	0.2	0.21	<	U	0.098	0.22	0.23	<	U	0.09	0.2	0.4	<	U	0.053	0.11	0.16
RDX	4	5 / 25	<	U	0.052	0.2	0.21	<	U	0.056	0.22	0.23	0.21	J	0.16	0.4	0.4	1.9		0.038	0.11	0.16
Tetryl	-	0 / 23	<	U	0.032	0.1	0.11	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.24	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-EXPLOSIVES

FIELD ID			G0067					G0067					G0067					G0067		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/16/2016					8/17/2015					None		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 25	<	U	0.034	0.11	0.16	<	0.22	0.43	1.1	U	<	0.23	0.45	1.1	U			
1,3-Dinitrobenzene	-	0 / 25	<	U	0.054	0.11	0.16	<	0.096	0.22	0.43	U	<	0.10	0.23	0.45	U			
2,4,6-Trinitrotoluene	0.85	1 / 25	<	U	0.054	0.11	0.16	<	0.078	0.22	0.43	U	<	0.082	0.23	0.45	U			
2,4-Dinitrotoluene	-	0 / 25	<	U	0.054	0.11	0.14	<	0.090	0.22	0.43	U	<	0.095	0.23	0.45	U			
2,6-Dinitrotoluene	-	0 / 25	<	U	0.054	0.11	0.14	<	0.070	0.22	0.22	U	<	0.073	0.23	0.23	U	**No 2014 Sample**		
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 25	<	U	0.033	0.11	0.16	<	0.055	0.13	0.22	U	<	0.057	0.14	0.23	U	**Well Dry**		
2-Nitrotoluene	-	0 / 21	<	U	0.096	0.22	0.54	<	0.092	0.22	0.43	U	<	0.097	0.23	0.45	U			
3-Nitrotoluene	-	0 / 21	<	U	0.062	0.22	0.54	<	0.090	0.22	0.43	U	<	0.094	0.23	0.45	U			
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	U	0.054	0.11	0.16	<	0.062	0.13	0.22	U	<	0.065	0.14	0.23	U			
4-Nitrotoluene	-	0 / 21	<	U	0.096	0.22	0.54	<	0.22	0.43	1.1	U	<	0.23	0.45	1.1	U			
HMX	0.47 J	3 / 25	0.3		0.039	0.11	0.16	<	0.094	0.22	0.43	U	<	0.099	0.23	0.45	U			
MNX	0.15 J	1 / 14	0.15	J	0.031	0.11	0.54	<	0.39	0.39	2.2	U	<	0.40	0.4	2.3	U			
Nitrobenzene	-	0 / 25	<	U	0.054	0.11	0.16	<	0.098	0.22	0.43	U	<	0.10	0.23	0.45	U			
RDX	4	5 / 25	4		0.039	0.11	0.16	2	0.056	0.13	0.22		<	0.059	0.14	0.23	U			
Tetryl	-	0 / 23	<	U	0.054	0.11	0.16	<	0.085	0.22	0.26	U	<	0.090	0.23	0.27	U			

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-EXPLOSIVES

FIELD ID			G0067			G0067			G0067			G0067			G0067			G0067			G0067		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/12/2012			3/10/2011			3/18/2010			3/19/2009			3/18/2008			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U			
1,3-Dinitrobenzene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
2,4,6-Trinitrotoluene	0.85	1 / 25	<	0.8	U	0.85	0.8		<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	**No 2007 Sample**		
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 25	<	0.8	U	0.14	0.8	J	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	**Well Dry**		
2-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U			
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U			
HMX	0.47 J	3 / 25	<	0.8	U	0.47	0.8	J	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
MNX	0.15 J	1 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U			
Nitrobenzene	-	0 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U			
RDX	4	5 / 25	<	0.8	U	3.7	0.8		<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U			
Tetryl	-	0 / 23	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U			

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-EXPLOSIVES

FIELD ID			G0067			G0067			G0067			G0067			G0067			G0067			G0067		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/18/2004			3/18/2003			3/22/2002			3/23/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25							<	0.18	U	<	0.16	U	<	0.42	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 25							<	0.18	U	<	0.16	U	<	0.28	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	0.85	1 / 25							<	0.18	U	<	0.16	U	<	0.35	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 25							<	0.35	U	<	0.31	U	<	0.28	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 25	**No 2006 Sample**			**No 2005 Sample**			<	0.35	U	<	0.31	U	<	1.1	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 25	**Well Dry**			**Well Dry**			<	0.35	U	<	0.31	U	<	0.44	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 21							<	0.35	U	<	0.31	U	<	0.86	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 21							<	0.35	U	<	0.31	U	<	0.54	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 21							<	0.35	U	<	0.31	U	<	0.74	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 21							<	0.57	U	<	0.5	U	<	1.8	U	<	0.8	U	<	1.1	U
HMX	0.47 J	3 / 25							<	0.44	U	<	0.39	U	<	1.2	U	<	1	U	<	0.8	U
MNX	0.15 J	1 / 14							<	0.18	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 25							<	0.18	U	<	0.16	U	<	0.49	U	<	0.8	U	<	0.8	U
RDX	4	5 / 25							<	0.18	U	<	0.16	U	<	0.70	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 23							<	0.35	U	<	0.31	U	<	1.2	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-EXPLOSIVES

FIELD ID			G0067			G0067			G0067			G0067			G0067			G0067			G0067		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	4/2/1999			6/18/1998			10/4/1997			7/16/1994			6/22/1994			10/13/1992			8/24/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	1.00	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 25	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	0.85	1 / 25	<	0.8	U	<	1.00	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.500	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 25	<	0.8	U	<	0.500	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 21	<	0.8	U	<	1.00	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	1.00	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	1.00	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	1.00	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.47 J	3 / 25	<	0.8	U	<	0.500	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	0.15 J	1 / 14		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 25	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	4	5 / 25	<	0.8	U	<	1.00	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 23	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0068-EXPLOSIVES

FIELD ID			G0068			G0068			G0068			G0068			G0068			G0068			G0068		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/11/2013			3/5/2012			None			3/14/2007			3/28/2006			3/22/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
1,3-Dinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
2,4,6-Trinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
2,4-Dinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.48	U	<	0.48	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010, 2011**			<	0.48	U	<	0.48	U	<	0.5	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U				<	0.48	U	<	0.48	U	<	0.5	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
HMX	0.68	1 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
MNX	0.14 J	1 / 6				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
Nitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
RDX	1.5	3 / 14				<	0.8	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U
Tetryl	-	0 / 12				<	1.6	U	<	0.8	U				<	0.48	U	<	0.48	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0068-EXPLOSIVES

FIELD ID			G0068			G0068			G0068			G0068			G0068			G0068			G0068		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/17/2004			3/21/2003			3/25/2002			3/28/2001			3/17/2000			3/29/1999			6/23/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.25	U	<	0.26	U	<	0.29	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 14	<	0.25	U	<	0.26	U	<	0.19	UJ	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 14	<	0.25	U	<	0.26	U	<	0.24	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.5	U	<	0.19	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.5	U	<	0.74	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.48	U	<	0.5	U	<	0.30	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 12	<	0.48	U	<	0.5	U	<	0.59	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 12	<	0.48	U	<	0.5	U	<	0.37	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	0.48	U	<	0.5	U	<	0.50	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 12	<	0.78	U	<	0.81	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	0.68	1 / 14	0.68	0.6		<	0.63	U	<	0.82	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ
MNX	0.14 J	1 / 6	0.14	0.25	J		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.25	U	<	0.26	U	<	0.34	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	1.5	3 / 14	1.5	0.25		0.86	0.26		0.42	0.48	J	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 12	<	0.48	U	<	0.5	U	<	0.79	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0068-EXPLOSIVES

FIELD ID			G0068			G0068		
METHOD	Maximum	Detection	UW32			UW32		
COLLECT DATE	Detection	Frequency	10/12/1992			8/23/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 14	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 14	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 14	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 14	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 12		NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA	
HMX	0.68	1 / 14	<	1.21	U	<	1.21	U
MNX	0.14 J	1 / 6		NA			NA	
Nitrobenzene	-	0 / 14	<	0.645	U	<	0.645	U
RDX	1.5	3 / 14	<	1.17	U	<	1.17	U
Tetryl	-	0 / 12		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-EXPLOSIVES

FIELD ID			G0070					G0070					G0070					G0070				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/2/2020					6/9/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.08	0.19	0.2	<	U	0.093	0.22	0.23	<	U	0.19	0.39	0.97	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 28	<	U	0.035	0.095	0.1	<	U	0.041	0.11	0.12	<	U	0.086	0.19	0.39	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.043	0.095	0.1	<	U	0.05	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 28	<	U	0.026	0.076	0.1	<	U	0.03	0.088	0.11	<	U	0.082	0.19	0.39	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 28	<	U	0.038	0.076	0.1	<	U	0.044	0.088	0.11	<	U	0.063	0.19	0.19	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	UJ	0.048	0.095	0.1	<	UJ	0.056	0.11	0.12	<	U	0.049	0.12	0.19	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.081	0.19	0.2	<	U	0.094	0.22	0.23	<	UJ	0.083	0.19	0.39	<	U	0.094	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.38	0.38	<	U	0.22	0.44	0.44	<	UJ	0.19	0.39	0.39	<	U	0.061	0.21	0.53
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.055	0.11	0.14	<	UJ	0.064	0.13	0.17	<	U	0.056	0.12	0.19	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.095	0.38	0.39	<	U	0.11	0.44	0.45	<	UJ	0.19	0.39	0.97	<	U	0.094	0.21	0.53
HMX	-	0 / 28	<	U	0.083	0.19	0.2	<	U	0.097	0.22	0.23	<	U	0.085	0.19	0.39	<	U	0.03	0.11	0.16
MNX	-	0 / 18	<	U	0.15	0.38	1.9	<	U	0.17	0.44	2.2	<	U	0.15	0.39	1.9	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 28	<	U	0.086	0.19	0.2	<	U	0.1	0.22	0.23	<	U	0.089	0.19	0.39	<	U	0.053	0.11	0.16
RDX	-	0 / 28	<	U	0.049	0.19	0.2	<	U	0.057	0.22	0.23	<	U	0.15	0.39	0.39	<	U	0.038	0.11	0.16
Tetryl	-	0 / 26	<	U	0.03	0.095	0.1	<	U	0.035	0.11	0.12	<	U	0.077	0.19	0.23	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-EXPLOSIVES

FIELD ID			G0070					G0070					G0070					G0070		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/10/2016					8/13/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.032	0.1	0.15	<	0.22	0.44	1.1	UJ	<	0.21	0.43	1.1	U	<	1.1	U
1,3-Dinitrobenzene	-	0 / 28	<	U	0.052	0.1	0.15	<	0.097	0.22	0.44	U	<	0.095	0.21	0.43	U	<	0.43	U
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.15	<	0.079	0.22	0.44	U	<	0.077	0.21	0.43	U	<	0.43	U
2,4-Dinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.13	<	0.092	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.43	U
2,6-Dinitrotoluene	-	0 / 28	<	U	0.052	0.1	0.13	<	0.071	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.22	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	U	0.031	0.1	0.15	<	0.056	0.13	0.22	U	<	0.054	0.13	0.21	U	<	0.22	U
2-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.094	0.22	0.44	U	<	0.091	0.21	0.43	U	<	0.43	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.092	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.43	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.15	<	0.063	0.13	0.22	U	<	0.062	0.13	0.21	U	<	0.22	U
4-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1.1	U
HMX	-	0 / 28	<	U	0.037	0.1	0.15	<	0.096	0.22	0.44	U	<	0.093	0.21	0.43	U	<	0.43	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2.2	U
Nitrobenzene	-	0 / 28	<	U	0.052	0.1	0.15	<	0.1	0.22	0.44	U	<	0.097	0.16	0.43	U	<	0.43	U
RDX	-	0 / 28	<	U	0.037	0.1	0.15	<	0.057	0.13	0.22	U	<	0.056	0.13	0.21	U	<	0.22	U
Tetryl	-	0 / 26	<	U	0.052	0.1	0.15	<	0.087	0.22	0.26	U	<	0.085	0.21	0.26	U	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-EXPLOSIVES

FIELD ID			G0070			G0070			G0070			G0070			G0070			G0070			G0070		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009			3/12/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.49	U
HMX	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.49	U
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
RDX	-	0 / 28	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
Tetryl	-	0 / 26	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-EXPLOSIVES

FIELD ID			G0070			G0070			G0070			G0070			G0070			G0070			G0070		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2006			3/15/2005			3/17/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.30	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.20	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.25	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.20	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.79	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.32	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.62	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.39	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.53	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.5	U	<	0.5	U	<	1.3	U	<	0.8	U	<	1.1	U
HMX	-	0 / 28	<	0.48	U	<	0.48	U	<	0.39	U	<	0.39	U	<	0.86	U	<	1.0	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.16	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.35	U	<	0.8	U	<	0.8	U
RDX	-	0 / 28	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.51	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 26	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.84	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-EXPLOSIVES

FIELD ID			G0070			G0070			G0070			G0070			G0070			G0070		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	4/1/1999			6/29/1998			7/15/1994			6/22/1994			10/13/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
HMX	-	0 / 28	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 18		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 28	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 26	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-EXPLOSIVES

FIELD ID			G0075					G0075					G0075					G0075				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/1/2020					6/9/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	5.8	8 / 24	<	U	0.08	0.19	0.2	<	U	0.089	0.21	0.22	<	U	0.2	0.4	0.99	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 24	<	U	0.035	0.096	0.11	<	U	0.039	0.11	0.12	<	U	0.088	0.2	0.4	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	12	10 / 24	<	U	0.043	0.096	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 24	<	U	0.026	0.077	0.1	<	U	0.029	0.085	0.11	<	U	0.083	0.2	0.4	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 24	<	U	0.038	0.077	0.1	<	U	0.042	0.085	0.11	<	U	0.064	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	5.3	14 / 24	0.75		0.049	0.096	0.11	<	U	0.054	0.11	0.12	<	U	0.05	0.12	0.2	0.45		0.031	0.1	0.15
2-Nitrotoluene	0.63 J	1 / 24	<	U	0.082	0.19	0.2	<	U	0.09	0.21	0.22	<	UJ	0.085	0.2	0.4	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 24	<	U	0.19	0.38	0.38	<	U	0.21	0.42	0.42	<	UJ	0.19	0.4	0.4	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	4.2	15 / 24	0.67		0.055	0.11	0.14	<	U	0.061	0.13	0.16	<	U	0.057	0.12	0.2	0.37		0.051	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	U	0.096	0.38	0.39	<	U	0.11	0.42	0.43	<	UJ	0.2	0.4	0.99	<	U	0.09	0.2	0.51
HMX	4.6	15 / 24	2	J	0.084	0.19	0.2	<	U	0.16	0.42	2.1	<	U	0.15	0.4	2	<	U	0.037	0.1	0.51
MNX	1.6	7 / 18	<	U	0.15	0.38	1.9	<	U	0.093	0.21	0.22	<	U	0.087	0.2	0.4	0.37		0.029	0.1	0.15
Nitrobenzene	-	0 / 24	<	U	0.087	0.19	0.2	<	U	0.096	0.21	0.22	<	U	0.09	0.2	0.4	<	U	0.051	0.1	0.15
RDX	14	20 / 24	<	U	0.049	0.19	0.2	<	U	0.054	0.21	0.22	<	U	0.16	0.4	0.4	0.25		0.037	0.1	0.15
Tetryl	-	0 / 24	<	U	0.03	0.096	0.11	<	U	0.034	0.11	0.12	<	U	0.079	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-EXPLOSIVES

FIELD ID			G0075					G0075					G0075					G0075				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	4/1/2017					8/10/2016					8/13/2015					8/19/2014				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual		
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	5.8	8 / 24	<	U	0.032	0.1	0.16	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1.0	U		
1,3-Dinitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.097	0.22	0.44	U	<	0.095	0.21	0.43	U	<	0.4	U		
2,4,6-Trinitrotoluene	12	10 / 24	<	U	0.052	0.1	0.16	<	0.079	0.22	0.44	U	<	0.078	0.21	0.43	U	<	0.4	U		
2,4-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.092	0.22	0.44	U	<	0.90	0.21	0.43	U	<	0.4	U		
2,6-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.07	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.2	U		
2-Amino-4,6-dinitrotoluene	5.3	14 / 24	<	U	0.031	0.1	0.16	0.077	0.055	0.13	0.22	J	<	0.054	0.13	0.21	U	<	0.2	U		
2-Nitrotoluene	0.63 J	1 / 24	<	U	0.092	0.21	0.52	<	0.093	0.22	0.44	U	<	0.092	0.21	0.43	U	<	0.4	U		
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.091	0.22	0.44	U	<	0.090	0.21	0.43	U	<	0.4	U		
4-Amino-2,6-dinitrotoluene	4.2	15 / 24	0.49		0.052	0.1	0.16	0.16	0.063	0.13	0.22	J	<	0.062	0.13	0.21	U	<	0.2	U		
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1.0	U		
HMX	4.6	15 / 24	0.47		0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.39	0.39	2.1	U	<	2.0	U		
MNX	1.6	7 / 18	<	U	0.037	0.1	0.16	0.53	0.096	0.22	0.44	J	<	0.094	0.21	0.43	U	0.90	0.4			
Nitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.099	0.22	0.44	U	<	0.098	0.21	0.43	U	<	0.4	U		
RDX	14	20 / 24	0.16		0.037	0.1	0.16	0.2	0.057	0.13	0.22	J	0.32	0.056	0.13	0.21		0.84	0.2			
Tetryl	-	0 / 24	<	U	0.052	0.1	0.16	<	0.087	0.22	0.26	U	<	0.085	0.21	0.26	U	<	0.2	U		

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-EXPLOSIVES

FIELD ID			G0075			G0075			G0075			G0075			G0075			G0075			G0075		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/16/2009			3/12/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	5.8	8 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	UJ	<	0.49	U	0.84	0.48	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	12	10 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	U	1.3	0.48	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	UJ	<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	5.3	14 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.18	0.2	J	<	0.48	UJ	<	0.49	U	3.2	0.48	
2-Nitrotoluene	0.63 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	4.2	15 / 24	<	1.4	U	<	1.4	U	<	0.8	U	0.32	0.2		<	0.48	UJ	<	0.49	U	3.9	0.48	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	UJ	<	0.49	U	<	0.48	U
HMX	4.6	15 / 24	1.3	0.8	U	<	0.8	U	0.3	0.8	J	<	2	U	<	0.48	UJ	1.1	0.49	J	2.5	0.48	
MNX	1.6	7 / 18	<	0.8	J	1.2	0.8	J	1.6	0.8		1.5	0.4		<	0.48	UJ	<	0.49	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	U	<	0.48	U
RDX	14	20 / 24	0.7	0.8	J	0.57	0.8	J	2.3	0.8		1.8	0.2		<	0.48	UJ	3.1	0.49		11	0.48	
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	UJ	<	0.49	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-EXPLOSIVES

FIELD ID			G0075			G0075			G0075			G0075			G0075			G0075			G0075		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2006			3/15/2005			3/17/2004			3/18/2003			3/21/2002			3/22/2001			3/23/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	5.8	8 / 24	<	0.48	U	0.79	0.48		1.3	0.24		<	0.16	U	4.0	0.35		5.8	0.8		4.3	0.8	
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.24	U	<	0.16	U	<	0.23	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	12	10 / 24	1.4	0.48		1.4	0.48		1.4	0.24		1.2	0.16		2.0	0.20	J	8.5	0.8		12	1.5	
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.23	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.91	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	5.3	14 / 24	2	0.48		1.8	0.48	P	2.6	0.46		2.3	0.31		1.7	0.37		2.9	0.8		5.3	1	
2-Nitrotoluene	0.63 J	1 / 24	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.72	U	0.63	0.8	J	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.45	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	4.2	15 / 24	3.6	0.48		2.4	0.48		2.5	0.46		2.3	0.31		2.2	0.62		2.2	0.8		4.2	1	
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.75	U	<	0.5	U	<	1.5	U	<	0.8	U	<	1.1	U
HMX	4.6	15 / 24	2.1	0.48		2.9	0.48		3.2	0.58		3.3	0.39		2.8	1.0		2.1	1.0		4.6	0.8	
MNX	1.6	7 / 18	<	0.48	U	<	0.48	U	0.21	0.24	J		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.24	U	<	0.16	U	<	0.41	U	<	0.8	U	<	0.8	U
RDX	14	20 / 24	7.9	0.48		9	0.48		9.2	0.24		8.3	0.8		10	0.59		11	0.8		14	0.8	
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.46	U	<	0.31	U	<	0.97	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-EXPLOSIVES

FIELD ID			G0075			G0075		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	4/1/1999			6/29/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	5.8	8 / 24	3.6	0.8		3.68	1.00	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	12	10 / 24	11	0.8		6.33	1.00	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	5.3	14 / 24	4.7	0.8		2.36	0.500	
2-Nitrotoluene	0.63 J	1 / 24	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	4.2	15 / 24	3.4	0.8		2.58	1.00	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
HMX	4.6	15 / 24	3.5	0.8		2.34	0.500	
MNX	1.6	7 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
RDX	14	20 / 24	14	0.8		8.06	1.00	
Tetryl	-	0 / 24	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-EXPLOSIVES

FIELD ID			G0076					G0076					G0076					G0076				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/1/2020					6/9/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.082	0.19	0.2	<	U	0.092	0.22	0.23	<	U	0.2	0.39	0.98	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 24	<	U	0.036	0.097	0.11	<	U	0.04	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.044	0.097	0.11	<	U	0.049	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 24	<	U	0.027	0.078	0.1	<	U	0.03	0.087	0.11	<	U	0.082	0.2	0.39	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.039	0.078	0.1	<	U	0.044	0.087	0.11	<	U	0.063	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.049	0.097	0.11	<	U	0.055	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 24	<	U	0.083	0.19	0.2	<	U	0.093	0.22	0.23	<	UJ	0.084	0.2	0.39	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	U	0.19	0.39	0.39	<	U	0.21	0.44	0.44	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.056	0.12	0.15	<	U	0.063	0.13	0.16	<	U	0.056	0.12	0.2	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	U	0.097	0.39	0.4	<	U	0.11	0.44	0.45	<	UJ	0.2	0.39	0.98	<	U	0.093	0.21	0.53
HMX	-	0 / 24	<	U	0.085	0.19	0.2	<	U	0.096	0.22	0.23	<	U	0.086	0.2	0.39	<	U	0.03	0.11	0.16
MNX	-	0 / 18	<	U	0.15	0.39	1.9	<	U	0.17	0.44	2.2	<	U	0.15	0.39	2	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 24	<	U	0.089	0.19	0.2	<	U	0.099	0.22	0.23	<	U	0.089	0.2	0.39	<	U	0.053	0.11	0.16
RDX	0.2 J	1 / 24	<	U	0.05	0.19	0.2	0.2	J	0.056	0.22	0.23	<	U	0.15	0.39	0.39	<	U	0.038	0.11	0.16
Tetryl	-	0 / 24	<	U	0.031	0.097	0.11	<	U	0.035	0.11	0.12	<	U	0.077	0.2	0.23	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-EXPLOSIVES

FIELD ID			G0076					G0076					G0076					G0076		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/10/2016					8/13/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.035	0.11	0.17	<	0.22	0.43	1.1	U	<	0.22	0.43	1.1	U	<	0.98	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.056	0.11	0.17	<	0.096	0.22	0.43	U	<	0.096	0.22	0.43	U	<	0.39	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.056	0.11	0.17	<	0.079	0.22	0.43	U	<	0.078	0.22	0.43	U	<	0.39	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.056	0.11	0.15	<	0.091	0.22	0.43	U	<	0.090	0.22	0.43	U	<	0.39	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.056	0.11	0.15	<	0.070	0.22	0.22	U	<	0.070	0.22	0.22	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.034	0.11	0.17	<	0.055	0.13	0.22	U	<	0.055	0.13	0.22	U	<	0.2	U
2-Nitrotoluene	-	0 / 24	<	U	0.099	0.23	0.56	<	0.093	0.22	0.43	U	<	0.092	0.22	0.43	U	<	0.39	U
3-Nitrotoluene	-	0 / 24	<	U	0.064	0.23	0.56	<	0.091	0.22	0.43	U	<	0.090	0.22	0.43	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.056	0.11	0.17	<	0.063	0.13	0.22	U	<	0.062	0.13	0.22	U	<	0.2	U
4-Nitrotoluene	-	0 / 24	<	U	0.099	0.23	0.56	<	0.22	0.43	1.1	U	<	0.22	0.43	1.1	U	<	0.98	U
HMX	-	0 / 24	<	U	0.041	0.11	0.17	<	0.095	0.22	0.43	U	<	0.095	0.22	0.43	U	<	0.39	U
MNX	-	0 / 18	<	U	0.032	0.11	0.56	<	0.39	0.39	2.2	U	<	0.39	0.39	2.2	U	<	2	U
Nitrobenzene	-	0 / 24	<	U	0.056	0.11	0.17	<	0.099	0.22	0.43	U	<	0.098	0.22	0.43	U	<	0.39	U
RDX	0.2 J	1 / 24	<	U	0.041	0.11	0.17	<	0.057	0.13	0.22	U	<	0.06	0.13	0.22	U	<	0.2	U
Tetryl	-	0 / 24	<	U	0.056	0.11	0.17	<	0.086	0.22	0.26	U	<	0.09	0.22	0.26	U	<	0.23	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-EXPLOSIVES

FIELD ID			G0076			G0076			G0076			G0076			G0076			G0076			G0076		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/16/2009			3/12/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	0.2 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-EXPLOSIVES

FIELD ID			G0076			G0076			G0076			G0076			G0076			G0076			G0076		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2006			3/15/2005			3/17/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.25	U	<	0.21	U	<	0.54	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.25	U	<	0.21	U	<	0.36	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.25	U	<	0.21	U	<	0.45	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	0.36	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	1.4	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	0.57	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	1.1	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	0.70	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	0.95	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.78	U	<	0.67	U	<	2.3	U	<	0.8	U	<	1.1	U
HMX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.61	U	<	0.52	U	<	1.5	U	<	1.0	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.25	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.25	U	<	0.21	U	<	0.63	U	<	0.8	U	<	0.8	U
RDX	0.2 J	1 / 24	<	0.48	U	<	0.48	U	<	0.25	U	<	0.21	U	<	0.91	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.41	U	<	1.5	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-EXPLOSIVES

FIELD ID			G0076			G0076		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	4/1/1999			6/29/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
HMX	-	0 / 24	<	0.8	U	<	0.500	U
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
RDX	0.2 J	1 / 24	<	0.8	U	<	1.00	U
Tetryl	-	0 / 24	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-EXPLOSIVES

FIELD ID			G0077					G0077					G0077					G0077				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	250	23 / 24	4.3		0.086	0.2	0.22	1.9	J	0.089	0.21	0.22	1.6		0.19	0.39	0.96	2.7		0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 24	<	U	0.038	0.1	0.11	<	UJ	0.039	0.11	0.12	<	U	0.085	0.19	0.39	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	800	24 / 24	4.3		0.046	0.1	0.11	3.3	J	0.047	0.11	0.12	2.2		0.15	0.39	0.39	5.3		0.053	0.11	0.16
2,4-Dinitrotoluene	8.8	9 / 24	0.061	J	0.028	0.082	0.1	<	UJ	0.029	0.084	0.11	<	U	0.081	0.19	0.39	0.063	J	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.041	0.082	0.1	<	UJ	0.042	0.084	0.11	<	U	0.062	0.19	0.19	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	61	24 / 24	2.5		0.052	0.1	0.11	1.2	J	0.053	0.11	0.12	2		0.049	0.12	0.19	3.9		0.032	0.11	0.16
2-Nitrotoluene	2.7	1 / 24	<	UJ	0.088	0.2	0.22	<	UJ	0.09	0.21	0.22	<	UJ	0.082	0.19	0.39	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	UJ	0.2	0.41	0.41	<	UJ	0.21	0.42	0.42	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	94 J	22 / 24	2.5		0.059	0.12	0.15	1.1	J	0.061	0.13	0.16	1.9		0.056	0.12	0.19	4.5		0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.1	0.41	0.42	<	UJ	0.11	0.42	0.43	<	UJ	0.19	0.39	0.96	<	U	0.093	0.21	0.53
HMX	6.5	22 / 24	0.57		0.09	0.2	0.22	<	UJ	0.092	0.21	0.22	<	U	0.084	0.19	0.39	0.91		0.03	0.11	0.16
MNX	0.35 J	3 / 18	<	U	0.16	0.41	2	<	UJ	0.16	0.42	2.1	<	U	0.15	0.39	1.9	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 24	<	U	0.093	0.2	0.22	<	UJ	0.096	0.21	0.22	<	U	0.088	0.19	0.39	<	U	0.053	0.11	0.16
RDX	55	24 / 24	1.2	J	0.053	0.2	0.22	0.46	J	0.054	0.21	0.22	0.53		0.15	0.39	0.39	1.3		0.038	0.11	0.16
Tetryl	-	0 / 24	<	U	0.033	0.1	0.11	<	UJ	0.034	0.11	0.12	<	U	0.076	0.19	0.23	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-EXPLOSIVES

FIELD ID			G0077					G0077					G0077					G0077		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/9/2016					8/12/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	250	23 / 24	3.5		0.033	0.11	0.16	3.4	0.22	0.44	1.1		5.2	0.21	0.42	1.1		6.7	1.1	
1,3-Dinitrobenzene	-	0 / 24	<	U	0.053	0.11	0.16	<	0.098	0.22	0.44	U	<	0.093	0.21	0.42	U	<	0.4	U
2,4,6-Trinitrotoluene	800	24 / 24	5.5		0.053	0.11	0.16	5.3	0.08	0.22	0.44		6.0	0.076	0.21	0.42		6.1	0.4	
2,4-Dinitrotoluene	8.8	9 / 24	0.071	J	0.053	0.11	0.14	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.053	0.11	0.14	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	61	24 / 24	4.4		0.032	0.11	0.16	3.5	0.056	0.13	0.22		4.0	0.053	0.13	0.21		3.8	0.2	
2-Nitrotoluene	2.7	1 / 24	<	U	0.093	0.21	0.53	<	0.094	0.22	0.44	U	<	0.090	0.21	0.42	U	<	0.4	U
3-Nitrotoluene	-	0 / 24	<	U	0.06	0.21	0.53	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	94 J	22 / 24	5.3		0.053	0.11	0.16	3.9	0.064	0.13	0.22		5.0	0.061	0.13	0.21		4.9	0.2	
4-Nitrotoluene	-	0 / 24	<	U	0.093	0.21	0.53	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	1.1	U
HMX	6.5	22 / 24	1.1		0.038	0.11	0.16	0.58	0.096	0.22	0.44		0.72	0.092	0.21	0.42		0.86	0.4	
MNX	0.35 J	3 / 18	<	U	0.029	0.11	0.53	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2.2	U
Nitrobenzene	-	0 / 24	<	U	0.053	0.11	0.16	<	0.1	0.22	0.44	U	<	0.096	0.21	0.42	U	<	0.4	U
RDX	55	24 / 24	1.5		0.038	0.11	0.16	1.3	0.058	0.13	0.22		1.4	0.055	0.13	0.21		2.3	0.2	
Tetryl	-	0 / 24	<	U	0.053	0.11	0.16	<	0.087	0.22	0.26	U	<	0.083	0.21	0.25	U	<	0.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-EXPLOSIVES

FIELD ID			G0077			G0077			G0077			G0077			G0077			G0077			G0077		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012			3/15/2011			3/16/2010			3/13/2009			3/12/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	250	23 / 24	10.5	0.8	J	11.3	0.8		12.9	0.8		17	1	J	19	0.5		24	0.48		31	0.48	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	800	24 / 24	7.1	0.8	J	7.3	0.8		9.6	0.8		13	0.4		15	0.5		18	0.48		21	0.48	
2,4-Dinitrotoluene	8.8	9 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.5	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	61	24 / 24	3.6	0.8	J	3.3	0.8		4.2	0.8		5.6	0.2	J	5.2	0.5		5.4	0.48		6.3	0.48	
2-Nitrotoluene	2.7	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.5	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	94 J	22 / 24	4.3	1.4	J	3.2	1.4		3.4	0.8		3.5	0.2	J	4.5	0.5		4.3	0.48		3.7	0.48	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.5	U	<	0.48	U	<	0.48	U
HMX	6.5	22 / 24	1.3	0.8	J	1.3	0.8		1.3	0.8		1.4	0.4	J	1.5	0.5		2	0.48		2.9	0.48	
MNX	0.35 J	3 / 18	<	0.8	U	<	0.8	U	<	0.8	U	0.35	2	J	<	0.5	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.5	U	<	0.48	U	<	0.48	U
RDX	55	24 / 24	2.4	0.8	J	3	0.8		3.5	0.8		2.6	0.2	J	4.8	0.5		4.7	0.48		5.7	0.48	
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.5	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-EXPLOSIVES

FIELD ID			G0077			G0077			G0077			G0077			G0077			G0077			G0077		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2006			3/15/2005			3/15/2004			3/18/2003			3/20/2002			3/23/2001			3/23/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	250	23 / 24	27	0.49		31	0.48		22	1.9		<	0.21	U	9.5	0.36		23	16.0		140	80	
1,3-Dinitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.19	U	<	0.21	U	<	0.24	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	800	24 / 24	23	0.49		27	0.48		45	1.9		55	2.1	J	60	3.0		130	16.0		540	150	
2,4-Dinitrotoluene	8.8	9 / 24	<	0.49	U	<	0.48	U	0.18	0.36	J	<	0.47	UJ	0.28	0.24		0.51	0.8	J	6.5	1.1	
2,6-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.36	U	<	0.4	U	<	0.94	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	61	24 / 24	5.2	0.49		5.4	0.48	P	7.3	0.36		11	0.4	J	13	0.38		12	16.0	J	52	1	JE
2-Nitrotoluene	2.7	1 / 24	<	0.49	U	<	0.48	U	<	0.36	U	<	0.4	U	<	0.74	U	2.7	0.8		<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.36	U	<	0.4	U	<	0.47	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	94 J	22 / 24	3.8	0.49		3.7	0.48		5.1	0.36		7.5	0.4	J	9.4	0.64		<	0.8	U	94	100	J
4-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.58	U	<	0.64	U	<	1.5	U	<	0.8	U	<	1.1	U
HMX	6.5	22 / 24	2.3	0.49		2.4	0.48		3	0.46		3	0.5	J	3.4	1.0		2.5	1.0		6.5	0.8	
MNX	0.35 J	3 / 18	<	0.49	U	0.32	0.48	J	0.26	0.19			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.19	U	<	0.21	U	<	0.42	U	<	0.8	U	<	0.8	U
RDX	55	24 / 24	7.5	0.49		15	0.48		13	1.9		9.9	0.21	J	12	3.0		14	0.8		40	80	J
Tetryl	-	0 / 24	<	0.49	U	<	0.48	U	<	0.36	U	<	0.4	U	<	1.0	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-EXPLOSIVES

FIELD ID			G0077			G0077		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	4/1/1999			6/30/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	250	23 / 24	250	160.0		116	1.00	
1,3-Dinitrobenzene	-	0 / 24	<	4.0	U	<	0.500	U
2,4,6-Trinitrotoluene	800	24 / 24	800	160.0		418	1.00	
2,4-Dinitrotoluene	8.8	9 / 24	8.8	4.0		8.74	0.500	
2,6-Dinitrotoluene	-	0 / 24	<	4.0	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	61	24 / 24	61	4.0		49.5	0.500	
2-Nitrotoluene	2.7	1 / 24	<	4.0	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	4.0	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	94 J	22 / 24	<	4.0	U	14.7	1.00	
4-Nitrotoluene	-	0 / 24	<	4.0	U	<	1.00	U
HMX	6.5	22 / 24	4.6	4.0		4.53	0.500	
MNX	0.35 J	3 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	4.0	U	<	0.500	U
RDX	55	24 / 24	55	4.0		13.9	1.00	
Tetryl	-	0 / 24	<	4.0	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-EXPLOSIVES

FIELD ID			G0078					G0078					G0078					G0078				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.089	0.21	0.22	<	UJ	0.089	0.21	0.22	<	U	0.2	0.4	1	<	U	0.034	0.11	0.16
1,3-Dinitrobenzene	-	0 / 24	<	U	0.039	0.11	0.12	<	UJ	0.039	0.11	0.12	<	U	0.089	0.2	0.4	<	U	0.055	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.048	0.11	0.12	<	UJ	0.047	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.055	0.11	0.16
2,4-Dinitrotoluene	-	0 / 24	<	U	0.029	0.085	0.11	<	UJ	0.029	0.084	0.11	<	U	0.084	0.2	0.4	<	U	0.055	0.11	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.042	0.085	0.11	<	UJ	0.042	0.084	0.11	<	U	0.065	0.2	0.2	<	U	0.055	0.11	0.14
2-Amino-4,6-dinitrotoluene	1.6	2 / 24	<	U	0.054	0.11	0.12	<	UJ	0.053	0.11	0.12	<	U	0.051	0.12	0.2	<	U	0.033	0.11	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.09	0.21	0.22	<	UJ	0.09	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.096	0.22	0.55
3-Nitrotoluene	-	0 / 24	<	UJ	0.21	0.42	0.42	<	UJ	0.21	0.42	0.42	<	UJ	0.2	0.4	0.4	<	U	0.062	0.22	0.55
4-Amino-2,6-dinitrotoluene	0.5 J	1 / 24	<	U	0.061	0.13	0.16	<	UJ	0.061	0.13	0.16	<	U	0.058	0.12	0.2	<	U	0.055	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.11	0.42	0.43	<	UJ	0.11	0.42	0.43	<	UJ	0.2	0.4	1	<	U	0.096	0.22	0.55
HMX	-	0 / 24	<	U	0.093	0.21	0.22	<	UJ	0.092	0.21	0.22	<	U	0.088	0.2	0.4	<	U	0.031	0.11	0.16
MNX	-	0 / 18	<	U	0.16	0.42	2.1	<	UJ	0.16	0.42	2.1	<	U	0.15	0.4	2	<	U	0.039	0.11	0.55
Nitrobenzene	-	0 / 24	<	U	0.096	0.21	0.22	<	UJ	0.096	0.21	0.22	<	U	0.091	0.2	0.4	<	U	0.055	0.11	0.16
RDX	-	0 / 24	<	U	0.055	0.21	0.22	<	UJ	0.054	0.21	0.22	<	U	0.16	0.4	0.4	<	U	0.039	0.11	0.16
Tetryl	-	0 / 24	<	U	0.034	0.11	0.12	<	UJ	0.034	0.11	0.12	<	U	0.08	0.2	0.24	<	U	0.055	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-EXPLOSIVES

FIELD ID			G0078					G0078					G0078					G0078		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/9/2016					8/12/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.064	0.21	0.31	<	0.21	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1.1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.1	0.21	0.31	<	0.095	0.21	0.43	U	<	0.093	0.21	0.42	U	<	0.43	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.1	0.21	0.31	<	0.077	0.21	0.43	U	<	0.076	0.21	0.42	U	<	0.43	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.1	0.21	0.27	<	0.09	0.21	0.43	U	<	0.088	0.21	0.42	U	<	0.43	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.1	0.21	0.27	<	0.069	0.21	0.21	U	<	0.068	0.21	0.21	U	<	0.22	U
2-Amino-4,6-dinitrotoluene	1.6	2 / 24	<	U	0.062	0.21	0.31	<	0.054	0.13	0.21	U	<	0.053	0.13	0.21	U	<	0.22	U
2-Nitrotoluene	-	0 / 24	<	U	0.18	0.41	1	<	0.091	0.21	0.43	U	<	0.090	0.21	0.42	U	<	0.43	U
3-Nitrotoluene	-	0 / 24	<	U	0.12	0.41	1	<	0.089	0.21	0.43	U	<	0.087	0.21	0.42	U	<	0.43	U
4-Amino-2,6-dinitrotoluene	0.5 J	1 / 24	<	U	0.1	0.21	0.31	<	0.062	0.13	0.21	U	<	0.060	0.13	0.21	U	<	0.22	U
4-Nitrotoluene	-	0 / 24	<	U	0.18	0.41	1	<	0.21	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1.1	U
HMX	-	0 / 24	<	U	0.074	0.21	0.31	<	0.094	0.21	0.43	U	<	0.092	0.21	0.42	U	<	0.43	U
MNX	-	0 / 18	<	U	0.058	0.21	1	<	0.38	0.38	2.1	U	<	0.38	0.38	2.1	U	<	2.2	U
Nitrobenzene	-	0 / 24	<	U	0.1	0.21	0.31	<	0.097	0.21	0.43	U	<	0.095	0.21	0.42	U	<	0.43	U
RDX	-	0 / 24	<	U	0.074	0.21	0.31	<	0.056	0.13	0.21	U	<	0.055	0.13	0.21	U	<	0.22	U
Tetryl	-	0 / 24	<	U	0.1	0.21	0.31	<	0.085	0.21	0.26	U	<	0.083	0.21	0.25	U	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-EXPLOSIVES

FIELD ID			G0078			G0078			G0078			G0078			G0078			G0078			G0078		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012			3/14/2011			3/16/2010			3/13/2009			3/13/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	1.6	2 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.064	0.2	J	<	0.48	U	<	0.49	U	<	0.48	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.5 J	1 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.48	U
HMX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
RDX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-EXPLOSIVES

FIELD ID			G0078			G0078			G0078			G0078			G0078			G0078			G0078		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2006			3/15/2005			3/15/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.2	U	<	0.42	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.2	U	<	0.28	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.2	U	<	0.35	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	0.28	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	1.1	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	1.6	2 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	0.44	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	0.86	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	0.54	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	0.5 J	1 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	0.74	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.67	U	<	0.63	U	<	1.8	U	<	0.8	U	<	1.1	U
HMX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.52	U	<	0.49	U	<	1.2	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.21	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.2	U	<	0.49	U	<	0.8	U	<	0.8	U
RDX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.2	U	<	0.70	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.39	U	<	1.2	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-EXPLOSIVES

FIELD ID			G0078			G0078		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	4/1/1999			6/30/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	1.6	2 / 24	1.6	0.8		<	0.500	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	0.5 J	1 / 24	0.5	0.8	J	<	1.00	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
HMX	-	0 / 24	<	0.8	U	<	0.500	U
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
RDX	-	0 / 24	<	0.8	U	<	1.00	U
Tetryl	-	0 / 24	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-EXPLOSIVES

FIELD ID			G0079					G0079					G0079					G0079		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	5/20/2021					6/1/2020					6/9/2019					None		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 10	<	U	0.079	0.19	0.2	<	U	0.091	0.22	0.23	<	U	0.2	0.39	0.98			
1,3-Dinitrobenzene	-	0 / 10	<	U	0.035	0.094	0.1	<	U	0.04	0.11	0.12	<	U	0.087	0.2	0.39			
2,4,6-Trinitrotoluene	-	0 / 10	<	U	0.042	0.094	0.1	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39			
2,4-Dinitrotoluene	-	0 / 10	<	U	0.026	0.075	0.09	<	U	0.03	0.086	0.11	<	U	0.082	0.2	0.39			
2,6-Dinitrotoluene	-	0 / 10	<	U	0.038	0.075	0.09	<	U	0.043	0.086	0.11	<	U	0.063	0.2	0.2	**No 2018 Sample**		
2-Amino-4,6-dinitrotoluene	0.49 J	2 / 10	<	U	0.048	0.094	0.1	<	U	0.055	0.11	0.12	<	U	0.05	0.12	0.2	**Well Dry**		
2-Nitrotoluene	-	0 / 10	<	U	0.08	0.19	0.2	<	U	0.092	0.22	0.23	<	UJ	0.084	0.2	0.39			
3-Nitrotoluene	-	0 / 10	<	U	0.18	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39			
4-Amino-2,6-dinitrotoluene	1.4	2 / 10	<	U	0.054	0.11	0.14	<	U	0.062	0.13	0.16	<	U	0.057	0.12	0.2			
4-Nitrotoluene	0.22 J	1 / 10	<	U	0.094	0.38	0.39	0.22	J	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98			
HMX	2	2 / 10	<	U	0.082	0.19	0.2	<	U	0.094	0.22	0.23	<	U	0.086	0.2	0.39			
MNX		0 / 7	<	U	0.14	0.38	1.9	<	U	0.17	0.43	2.2	<	U	0.15	0.39	2			
Nitrobenzene	-	0 / 10	<	U	0.086	0.19	0.2	<	U	0.098	0.22	0.23	<	U	0.089	0.2	0.39			
RDX	15	3 / 10	<	U	0.048	0.19	0.2	<	U	0.055	0.22	0.23	<	U	0.15	0.39	0.39			
Tetryl	-	0 / 10	<	U	0.03	0.094	0.1	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.24			

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-EXPLOSIVES

FIELD ID			G0079			G0079			G0079			G0079			G0079			G0079			G0079		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			None			None			3/12/2012			3/15/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 10																<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 10																<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 10																<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 10																<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 10	**No 2017 Sample**			**No 2016 Sample**			**No 2015 Sample**			**No 2014 Sample**			**No 2013 Sample**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	0.49 J	2 / 10	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 10																<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 10																<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	1.4	2 / 10																<	1.4	U	<	0.8	U
4-Nitrotoluene	0.22 J	1 / 10																<	0.8	U	<	0.8	U
HMX	2	2 / 10																<	0.8	U	<	0.8	U
MNX		0 / 7																<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 10																<	0.8	U	<	0.8	U
RDX	15	3 / 10																<	0.8	U	<	0.8	U
Tetryl	-	0 / 10																<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-EXPLOSIVES

FIELD ID			G0079			G0079			G0079			G0079			G0079			G0079			G0079		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2010			3/16/2009			None			None			None			None			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 10	<	1	U	<	0.48	U															
1,3-Dinitrobenzene	-	0 / 10	<	0.4	U	<	0.48	U															
2,4,6-Trinitrotoluene	-	0 / 10	<	0.4	U	<	0.48	U															
2,4-Dinitrotoluene	-	0 / 10	<	0.4	U	<	0.48	U															
2,6-Dinitrotoluene	-	0 / 10	<	0.2	U	<	0.48	U	**No 2008 Sample**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**		
2-Amino-4,6-dinitrotoluene	0.49 J	2 / 10	<	0.2	U	<	0.48	U	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**		
2-Nitrotoluene	-	0 / 10	<	0.4	U	<	0.48	U															
3-Nitrotoluene	-	0 / 10	<	0.4	U	<	0.48	U															
4-Amino-2,6-dinitrotoluene	1.4	2 / 10	<	0.2	U	<	0.48	U															
4-Nitrotoluene	0.22 J	1 / 10	<	1	U	<	0.48	U															
HMX	2	2 / 10	<	0.4	U	<	0.48	U															
MNX		0 / 7	<	2	U	<	0.48	U															
Nitrobenzene	-	0 / 10	<	0.4	U	<	0.48	U															
RDX	15	3 / 10	<	0.2	U	<	0.48	U															
Tetryl	-	0 / 10	<	0.24	U	<	0.48	U															

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-EXPLOSIVES

FIELD ID			G0079			G0079			G0079			G0079		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/21/2002			3/22/2001			3/23/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 10				<	0.39	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 10				<	0.26	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 10				<	0.33	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 10				<	0.26	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 10	**No 2003 Sample**			<	1.0	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.49 J	2 / 10	**Well Dry**			0.17	0.41	J	0.49	0.8	J	<	1	U
2-Nitrotoluene	-	0 / 10				<	0.80	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 10				<	0.51	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	1.4	2 / 10				0.23	0.69	J	1.4	0.8		<	1	U
4-Nitrotoluene	0.22 J	1 / 10				<	1.6	U	<	0.8	U	<	1.1	U
HMX	2	2 / 10				0.85	1.1	J	2	1.0		<	0.8	U
MNX		0 / 7					NA			NA			NA	
Nitrobenzene	-	0 / 10				<	0.46	U	<	0.8	U	<	0.8	U
RDX	15	3 / 10				1.5	0.65		15	0.8		1.4	0.8	
Tetryl	-	0 / 10				<	1.1	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-EXPLOSIVES

FIELD ID			G0080					G0080					G0080					G0080				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/11/2020					6/9/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 13	<	U	0.087	0.21	0.22	<	U	0.088	0.21	0.22	<	U	0.2	0.4	0.99	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 13	<	U	0.038	0.1	0.11	<	U	0.039	0.1	0.11	<	U	0.088	0.2	0.4	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 13	<	U	0.046	0.1	0.11	<	U	0.047	0.1	0.11	<	U	0.16	0.4	0.4	<	U	0.052	0.1	0.15
2,4-Dinitrotoluene	-	0 / 13	<	U	0.028	0.082	0.1	<	U	0.029	0.084	0.1	<	U	0.083	0.2	0.4	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 13	<	U	0.041	0.082	0.1	<	U	0.042	0.084	0.1	<	U	0.064	0.2	0.2	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	1.5	11 / 13	<	UJ	0.052	0.1	0.11	0.053	J	0.053	0.1	0.11	0.097	J	0.05	0.12	0.2	0.23		0.031	0.1	0.15
2-Nitrotoluene	-	0 / 13	<	UJ	0.088	0.21	0.22	<	U	0.089	0.21	0.22	<	UJ	0.085	0.2	0.4	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 13	<	UJ	0.2	0.41	0.41	<	U	0.2	0.42	0.42	<	UJ	0.19	0.4	0.4	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	0.88	8 / 13	<	UJ	0.059	0.12	0.15	0.15	J	0.06	0.13	0.16	0.073	J	0.057	0.12	0.2	0.17		0.052	0.1	0.15
4-Nitrotoluene	-	0 / 13	<	UJ	0.1	0.41	0.42	<	U	0.1	0.42	0.43	<	UJ	0.2	0.4	0.99	<	U	0.091	0.21	0.52
HMX	1.6	9 / 13	<	U	0.09	0.21	0.22	<	U	0.091	0.21	0.22	<	U	0.087	0.2	0.4	0.33		0.029	0.1	0.15
MNX	-	0 / 13	<	U	0.16	0.41	2.1	<	U	0.16	0.42	2.1	<	U	0.15	0.4	2	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 13	<	U	0.094	0.21	0.22	<	U	0.095	0.21	0.22	<	U	0.09	0.2	0.4	<	U	0.052	0.1	0.15
RDX	2.2	10 / 13	<	U	0.053	0.21	0.22	<	U	0.054	0.21	0.22	<	U	0.16	0.4	0.4	0.28		0.037	0.1	0.15
Tetryl	-	0 / 13	<	U	0.033	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.079	0.2	0.24	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-EXPLOSIVES

FIELD ID			G0080					G0080					G0080					G0080		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/16/2016					8/5/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 13	<	U	0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	0.98	U
1,3-Dinitrobenzene	-	0 / 13	<	U	0.051	0.1	0.15	<	0.098	0.22	0.44	U	<	0.094	0.21	0.42	U	<	0.39	U
2,4,6-Trinitrotoluene	-	0 / 13	<	U	0.051	0.1	0.15	<	0.080	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.39	U
2,4-Dinitrotoluene	-	0 / 13	<	U	0.051	0.1	0.13	<	0.093	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.39	U
2,6-Dinitrotoluene	-	0 / 13	<	U	0.051	0.1	0.13	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	1.5	11 / 13	<	U	0.031	0.1	0.15	0.24	0.056	0.13	0.22		0.21	0.053	0.13	0.21	J	0.36	0.2	J
2-Nitrotoluene	-	0 / 13	<	U	0.091	0.21	0.51	<	0.095	0.22	0.44	U	<	0.090	0.21	0.42	U	<	0.39	U
3-Nitrotoluene	-	0 / 13	<	U	0.059	0.21	0.51	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	0.88	8 / 13	0.16		0.051	0.1	0.15	<	0.064	0.13	0.22	U	0.18	0.061	0.013	0.21	J	0.16	0.2	J
4-Nitrotoluene	-	0 / 13	<	U	0.091	0.21	0.51	<	0.22	0.44	1.1	U	<	0.21	0.21	1.1	U	<	0.98	U
HMX	1.6	9 / 13	0.59	J	0.037	0.1	0.15	<	0.097	0.22	0.44	U	0.31	0.092	0.21	0.42	J	0.31	0.39	J
MNX	-	0 / 13	<	U	0.029	0.1	0.51	<	0.40	0.40	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 13	<	U	0.051	0.1	0.15	<	0.10	0.22	0.44	U	<	0.096	0.21	0.42	U	<	0.39	U
RDX	2.2	10 / 13	0.23		0.037	0.1	0.15	0.26	0.058	0.13	0.22	J	0.29	0.055	0.13	0.21		0.45	0.2	
Tetryl	-	0 / 13	<	U	0.051	0.1	0.15	<	0.088	0.22	0.27	U	<	0.084	0.21	0.25	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-EXPLOSIVES

FIELD ID			G0080			G0080		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	1.5	11 / 13	0.86	0.8	J	0.94	0.8	
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	0.88	8 / 13	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U
HMX	1.6	9 / 13	1.1	0.8	J	1.1	0.8	
MNX	-	0 / 13	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U
RDX	2.2	10 / 13	1	0.8	J	1.6	0.8	J
Tetryl	-	0 / 13	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-EXPLOSIVES

FIELD ID			G0080			G0080			G0080		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2011			3/15/2010			3/17/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.98	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.39	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	0.39	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.39	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	1.5	11 / 13	1.3	0.8		1.5	0.2		1.4	0.48	
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.39	U	<	0.48	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.39	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.88	8 / 13	<	0.8	U	0.55	0.2		0.88	0.48	
4-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.98	U	<	0.48	U
HMX	1.6	9 / 13	1.2	0.8		1.6	0.39		1.4	0.48	
MNX	-	0 / 13	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.39	U	<	0.48	U
RDX	2.2	10 / 13	1.9	0.8		1.6	0.2		2.2	0.48	
Tetryl	-	0 / 13	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-44
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081-EXPLOSIVES

FIELD ID			G0081					G0081					G0081					G0081				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/2/2020					6/9/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	110 J	11 / 13	<	U	0.079	0.19	0.2	0.27		0.089	0.21	0.22	0.85	J	0.2	0.4	0.99	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 13	<	U	0.035	0.094	0.1	<	U	0.039	0.11	0.12	<	U	0.088	0.2	0.4	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	43	10 / 13	<	U	0.043	0.094	0.1	<	U	0.047	0.11	0.12	0.59	J	0.16	0.4	0.4	1		0.052	0.1	0.16
2,4-Dinitrotoluene	0.18 J	3 / 13	<	U	0.026	0.076	0.09	<	U	0.029	0.084	0.11	<	U	0.083	0.2	0.4	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 13	<	U	0.038	0.076	0.09	<	U	0.042	0.084	0.11	<	U	0.064	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	3.9	12 / 13	0.082	J	0.048	0.094	0.1	<	U	0.054	0.11	0.12	0.25		0.05	0.12	0.2	0.48		0.031	0.1	0.16
2-Nitrotoluene	-	0 / 13	<	U	0.081	0.19	0.2	<	U	0.09	0.21	0.22	<	UJ	0.085	0.2	0.4	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 13	<	U	0.18	0.38	0.38	<	U	0.21	0.42	0.42	<	UJ	0.19	0.4	0.4	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	2.9 J	10 / 13	<	U	0.055	0.11	0.14	<	U	0.061	0.13	0.16	<	U	0.057	0.12	0.2	0.48		0.052	0.1	0.16
4-Nitrotoluene		0 / 13	<	U	0.094	0.38	0.39	<	U	0.11	0.42	0.43	<	UJ	0.2	0.4	0.99	<	U	0.092	0.21	0.52
HMX	1.8	8 / 13	0.42		0.083	0.19	0.2	<	U	0.092	0.21	0.22	<	U	0.087	0.2	0.4	0.041	J	0.029	0.1	0.16
MNX	0.39 J	2 / 13	<	U	0.15	0.38	1.9	<	U	0.16	0.42	2.1	<	U	0.15	0.4	2	<	U	0.038	0.1	0.52
Nitrobenzene	-	0 / 13	<	U	0.086	0.19	0.2	<	U	0.096	0.21	0.22	<	U	0.09	0.2	0.4	<	U	0.052	0.1	0.16
RDX	3.3	11 / 13	0.3		0.049	0.19	0.2	<	U	0.054	0.21	0.22	<	U	0.16	0.4	0.4	0.29	J	0.038	0.1	0.16
Tetryl	-	0 / 13	<	U	0.03	0.094	0.1	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-44
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081-EXPLOSIVES

FIELD ID			G0081					G0081					G0081					G0081		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/16/2016					8/17/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	110 J	11 / 13	14	J	0.32	1	1.6	21	0.22	0.43	1.1		23	0.21	0.42	1.1		39	1	J
1,3-Dinitrobenzene	-	0 / 13	<	UJ	0.052	0.1	0.16	<	0.095	0.22	0.43	U	<	0.093	0.21	0.42	U	<	0.4	U
2,4,6-Trinitrotoluene	43	10 / 13	2.4	J	0.052	0.1	0.16	<	0.078	0.22	0.43	U	5.6	0.076	0.21	0.42		9.9	0.4	J
2,4-Dinitrotoluene	0.18 J	3 / 13	0.063	J	0.052	0.1	0.14	<	0.09	0.22	0.43	U	<	0.088	0.21	0.42	U	0.085	0.4	J
2,6-Dinitrotoluene	-	0 / 13	<	UJ	0.052	0.1	0.14	<	0.069	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	3.9	12 / 13	1.6	J	0.031	0.1	0.16	2.9	0.055	0.13	0.22		2.4	0.053	0.13	0.21		2.7	0.2	J
2-Nitrotoluene	-	0 / 13	<	UJ	0.092	0.21	0.52	<	0.092	0.22	0.43	U	<	0.090	0.21	0.42	U	<	0.4	U
3-Nitrotoluene	-	0 / 13	<	UJ	0.059	0.21	0.52	<	0.09	0.22	0.43	U	<	0.088	0.21	0.42	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	2.9 J	10 / 13	1	J	0.052	0.1	0.16	2.6	0.062	0.13	0.22		2.7	0.061	0.13	0.21		2.9	0.2	J
4-Nitrotoluene		0 / 13	<	UJ	0.092	0.21	0.52	<	0.22	0.43	1.1	U	<	0.21	0.42	1.1	U	<	0.99	U
HMX	1.8	8 / 13	0.44	J	0.037	0.1	0.16	<	0.094	0.22	0.43	U	<	0.092	0.21	0.42	U	<	0.4	U
MNX	0.39 J	2 / 13	<	UJ	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	0.39	2	J
Nitrobenzene	-	0 / 13	<	UJ	0.052	0.1	0.16	<	0.098	0.22	0.43	U	<	0.096	0.21	0.42	U	<	0.4	U
RDX	3.3	11 / 13	0.42	J	0.037	0.1	0.16	0.5	0.056	0.13	0.22	J	0.83	0.055	0.13	0.21		1.2	0.2	J
Tetryl	-	0 / 13	<	UJ	0.052	0.1	0.16	<	0.085	0.22	0.26	U	<	0.083	0.21	0.25	U	<	0.24	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-44
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081-EXPLOSIVES

FIELD ID			G0081			G0081			G0081			G0081			G0081		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	110 J	11 / 13	72.3	0.8	J	72.4	1.6		76.9	0.8		110	10	J	91	2.4	
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	43	10 / 13	12.7	0.8	J	16.9	0.8	J	20.7	0.8		36	4	J	43	0.48	
2,4-Dinitrotoluene	0.18 J	3 / 13	<	0.8	U	<	0.8	U	<	0.8	U	0.18	0.4	J	<	0.48	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	3.9	12 / 13	2.8	0.8	J	2.3	0.8		2.1	0.8		3.9	0.2	J	3.9	0.48	
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	2.9 J	10 / 13	2.5	1.4	J	2.5	1.4		1.7	0.8		2.4	0.2	J	2.8	0.48	
4-Nitrotoluene		0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	1.8	8 / 13	0.79	0.8	J	0.71	0.8	J	0.61	0.8	J	1.4	0.4	J	1.8	0.48	
MNX	0.39 J	2 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	0.35	2		<	0.48	U
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	3.3	11 / 13	0.94	0.8	J	1.2	0.8		1.4	0.8		1.3	0.2	J	3.3	0.48	
Tetryl	-	0 / 13	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-45
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082-EXPLOSIVES

FIELD ID			G0082					G0082					G0082					G0082				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/2/2020					6/9/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.52 J	7 / 13	3.9		0.08	0.19	0.2	<	U	0.097	0.23	0.24	<	U	0.2	0.39	0.98	0.056	J	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 13	<	U	0.035	0.095	0.1	<	U	0.042	0.12	0.13	<	U	0.087	0.2	0.39	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	1.4	9 / 13	0.73		0.043	0.095	0.1	<	U	0.052	0.12	0.13	<	U	0.16	0.39	0.39	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 13	<	U	0.026	0.076	0.1	<	U	0.032	0.092	0.12	<	U	0.082	0.2	0.39	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 13	<	U	0.038	0.076	0.1	<	U	0.046	0.092	0.12	<	U	0.063	0.2	0.2	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	1.3	12 / 13	0.55		0.048	0.095	0.1	0.098	J	0.058	0.12	0.13	0.22		0.05	0.12	0.2	0.68		0.031	0.1	0.16
2-Nitrotoluene	-	0 / 13	<	U	0.082	0.19	0.2	<	U	0.098	0.23	0.24	<	UJ	0.084	0.2	0.39	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 13	<	U	0.19	0.38	0.38	<	U	0.22	0.46	0.46	<	UJ	0.19	0.39	0.39	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	2	12 / 13	0.88		0.055	0.11	0.14	<	U	0.066	0.14	0.17	0.1	J	0.056	0.12	0.2	0.56		0.052	0.1	0.16
4-Nitrotoluene	-	0 / 13	<	U	0.095	0.38	0.39	<	U	0.12	0.46	0.47	<	UJ	0.2	0.39	0.98	<	U	0.091	0.21	0.52
HMX	4	11 / 13	<	U	0.084	0.19	0.2	<	U	0.1	0.23	0.24	0.43	J	0.086	0.2	0.39	1.4		0.029	0.1	0.16
MNX	0.089 J	1 / 13	<	U	0.15	0.38	1.9	<	U	0.18	0.46	2.3	<	U	0.15	0.39	2	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 13	<	U	0.087	0.19	0.2	<	U	0.1	0.23	0.24	<	U	0.089	0.2	0.39	<	U	0.052	0.1	0.16
RDX	16	13 / 13	0.43	J	0.049	0.19	0.2	0.68	J	0.059	0.23	0.24	0.34	J	0.15	0.39	0.39	1.7		0.037	0.1	0.16
Tetryl	-	0 / 13	<	U	0.03	0.095	0.1	<	U	0.037	0.12	0.13	<	U	0.077	0.2	0.23	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-45
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082-EXPLOSIVES

FIELD ID			G0082					G0082					G0082					G0082		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/12/2016					8/17/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.52 J	7 / 13	<	U	0.033	0.11	0.16	0.23	0.22	0.44	1.1	J	0.52	0.21	0.42	1.1	J	0.42	1	J
1,3-Dinitrobenzene	-	0 / 13	<	U	0.054	0.11	0.16	<	0.098	0.22	0.44	U	<	0.093	0.21	0.42	U	<	0.4	U
2,4,6-Trinitrotoluene	1.4	9 / 13	0.11	J	0.054	0.11	0.16	<	0.08	0.22	0.44	U	0.5	0.076	0.21	0.42	J	0.47	0.4	
2,4-Dinitrotoluene	-	0 / 13	<	U	0.054	0.11	0.14	<	0.093	0.22	0.44	U	<	0.088	0.21	0.42	UJ	<	0.4	U
2,6-Dinitrotoluene	-	0 / 13	<	U	0.054	0.11	0.14	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	UJ	<	0.2	U
2-Amino-4,6-dinitrotoluene	1.3	12 / 13	<	U	0.032	0.11	0.16	1	0.056	0.13	0.22		0.94	0.053	0.13	0.21	J	0.70	0.2	
2-Nitrotoluene	-	0 / 13	<	U	0.095	0.22	0.54	<	0.095	0.22	0.44	U	<	0.090	0.21	0.42	UJ	<	0.4	U
3-Nitrotoluene	-	0 / 13	<	U	0.061	0.22	0.54	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	UJ	<	0.4	U
4-Amino-2,6-dinitrotoluene	2	12 / 13	0.52		0.054	0.11	0.16	1.3	0.064	0.13	0.22		1.2	0.061	0.13	0.21	J	0.82	0.2	
4-Nitrotoluene	-	0 / 13	<	U	0.095	0.22	0.54	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	UJ	<	0.99	U
HMX	4	11 / 13	2.7		0.039	0.11	0.16	1.1	0.097	0.22	0.44	J	1.4	0.092	0.21	0.42	J	1.3	0.4	
MNX	0.089 J	1 / 13	0.089	J	0.03	0.11	0.54	<	0.4	0.4	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 13	<	U	0.054	0.11	0.16	<	0.1	0.22	0.44	U	<	0.096	0.21	0.42	UJ	<	0.4	U
RDX	16	13 / 13	5.4		0.039	0.11	0.16	2.7	0.058	0.13	0.22		4.5	0.055	0.13	0.21	J	4.5	0.2	
Tetryl	-	0 / 13	<	U	0.054	0.11	0.16	<	0.088	0.22	0.27	U	<	0.083	0.21	0.25	UJ	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-45
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082-EXPLOSIVES

FIELD ID			G0082			G0082			G0082			G0082			G0082		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	0.52 J	7 / 13	0.3	0.8	J	<	0.8	U	0.39	0.8	J	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	1.4	9 / 13	0.64	0.8	J	1.1	0.8	J	1.4	0.8		1.1	0.4	J	0.58	0.48	
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	1.3	12 / 13	1.1	0.8	J	0.94	0.8		1	0.8		1.3	0.2	J	1.3	0.48	
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	2	12 / 13	1.5	1.4	J	1.2	1.4	J	1.4	0.8		1.2	0.2	J	2	0.48	
4-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	4	11 / 13	2.4	0.8	J	1.1	0.8		1	0.8		2	0.4	J	4	0.48	
MNX	0.089 J	1 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	16	13 / 13	7.6	0.8	J	3.3	0.8		3.1	0.8		6	0.2	J	16	0.48	
Tetryl	-	0 / 13	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-46
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083-EXPLOSIVES

FIELD ID			G0083					G0083					G0083					G0083				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/14/2020					6/8/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.051 J	1 / 13	<	U	0.084	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.2	0.39	0.98	0.051	J	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 13	<	U	0.037	0.1	0.11	<	U	0.039	0.1	0.12	<	U	0.087	0.2	0.39	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	0.12 J	1 / 13	<	U	0.045	0.1	0.11	<	U	0.047	0.1	0.12	<	U	0.16	0.39	0.39	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 13	<	U	0.027	0.08	0.1	<	U	0.029	0.084	0.1	<	U	0.082	0.2	0.39	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 13	<	U	0.04	0.08	0.1	<	U	0.042	0.084	0.1	<	U	0.063	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	0.24	1 / 13	<	UJ	0.051	0.1	0.11	<	U	0.053	0.1	0.12	<	U	0.05	0.12	0.2	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 13	<	UJ	0.085	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 13	<	UJ	0.19	0.4	0.4	<	U	0.2	0.42	0.42	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	0.098 J	1 / 13	<	UJ	0.058	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.057	0.12	0.2	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 13	<	UJ	0.1	0.4	0.41	<	U	0.1	0.42	0.43	<	UJ	0.2	0.39	0.98	<	U	0.092	0.21	0.52
HMX	0.99	2 / 13	<	U	0.087	0.2	0.21	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	<	U	0.038	0.1	0.52
MNX	0.66	5 / 13	<	U	0.15	0.4	2	<	U	0.092	0.21	0.22	<	U	0.086	0.2	0.39	0.19		0.029	0.1	0.16
Nitrobenzene	-	0 / 13	<	U	0.091	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.052	0.1	0.16
RDX	0.91	2 / 13	<	U	0.051	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.16	0.39	0.39	<	U	0.038	0.1	0.16
Tetryl	-	0 / 13	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.12	<	U	0.078	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-46
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083-EXPLOSIVES

FIELD ID			G0083					G0083					G0083					G0083		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/16/2016					8/12/2015					8/8/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.051 J	1 / 13	<	U	0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 13	<	UJ	0.051	0.1	0.15	<	0.097	0.22	0.44	U	<	0.093	0.21	0.42	U	<	0.4	U
2,4,6-Trinitrotoluene	0.12 J	1 / 13	<	UJ	0.051	0.1	0.15	<	0.079	0.22	0.44	U	<	0.076	0.21	0.42	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 13	<	UJ	0.051	0.1	0.13	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 13	<	UJ	0.051	0.1	0.13	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.24	1 / 13	<	UJ	0.031	0.1	0.15	<	0.056	0.13	0.22	U	<	0.053	0.13	0.21	U	<	0.2	U
2-Nitrotoluene	-	0 / 13	<	UJ	0.091	0.21	0.51	<	0.094	0.22	0.44	U	<	0.090	0.21	0.42	U	<	0.4	U
3-Nitrotoluene	-	0 / 13	<	UJ	0.059	0.21	0.51	<	0.091	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	0.098 J	1 / 13	<	UJ	0.051	0.1	0.15	<	0.063	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	-	0 / 13	<	UJ	0.091	0.21	0.51	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	0.99	U
HMX	0.99	2 / 13	<	UJ	0.029	0.1	0.51	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2	U
MNX	0.66	5 / 13	0.32	J	0.037	0.1	0.15	<	0.096	0.22	0.44	U	<	0.092	0.21	0.42	U	<	0.4	J
Nitrobenzene	-	0 / 13	<	UJ	0.051	0.1	0.15	<	0.1	0.22	0.44	U	<	0.096	0.21	0.42	U	<	0.4	U
RDX	0.91	2 / 13	<	UJ	0.037	0.1	0.15	<	0.057	0.13	0.22	U	<	0.055	0.13	0.21	U	<	0.2	U
Tetryl	-	0 / 13	<	UJ	0.051	0.1	0.15	<	0.087	0.22	0.26	U	<	0.083	0.21	0.25	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-46
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083-EXPLOSIVES

FIELD ID			G0083			G0083			G0083			G0083			G0083		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/13/2012			3/15/2011			3/17/2010			3/18/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	0.051 J	1 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	0.12 J	1 / 13	<	0.8	U	<	0.8	U	<	0.8	U	0.12	0.4	J	<	0.48	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.24	1 / 13	<	0.8	U	<	0.8	U	<	0.8	U	0.24	0.2		<	0.48	U
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.098 J	1 / 13	<	1.4	U	<	1.4	U	<	0.8	U	0.098	0.2	J	<	0.48	U
4-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	0.99	2 / 13	0.2	0.8	U	<	0.8	U	<	0.8	U	<	2	U	0.99	0.48	
MNX	0.66	5 / 13	<	0.8	J	0.41	0.8	J	0.33	0.8	J	0.66	0.4		<	0.48	U
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	0.91	2 / 13	<	0.8	U	<	0.8	U	<	0.8	U	0.18	0.2	J	0.91	0.48	
Tetryl	-	0 / 13	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-47
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084-EXPLOSIVES

FIELD ID			G0084					G0084					G0084					G0084				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/13/2020					6/8/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 13	<	U	0.084	0.2	0.21	<	U	0.09	0.21	0.22	<	U	0.21	0.41	1	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 13	<	U	0.037	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.091	0.21	0.41	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 13	<	U	0.045	0.1	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.41	0.41	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	0.13 J	1 / 13	<	U	0.027	0.08	0.1	<	U	0.029	0.085	0.11	<	U	0.086	0.21	0.41	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 13	<	U	0.04	0.08	0.1	<	U	0.043	0.085	0.11	<	U	0.066	0.21	0.21	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	2.7	7 / 13	<	U	0.051	0.1	0.11	<	U	0.054	0.11	0.12	<	U	0.052	0.12	0.21	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 13	<	UJ	0.085	0.2	0.21	<	U	0.091	0.21	0.22	<	UJ	0.088	0.21	0.41	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 13	<	UJ	0.19	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	1.9	6 / 13	<	U	0.058	0.12	0.15	<	U	0.062	0.13	0.16	<	U	0.059	0.12	0.21	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 13	<	UJ	0.1	0.4	0.41	<	U	0.11	0.43	0.44	<	UJ	0.21	0.41	1	<	U	0.093	0.21	0.53
HMX	12	10 / 13	<	U	0.087	0.2	0.21	<	U	0.093	0.21	0.22	0.55	J	0.09	0.21	0.41	2.9	J	0.03	0.11	0.16
MNX	0.67 J	5 / 13	<	U	0.15	0.4	2	<	U	0.16	0.43	2.1	<	U	0.16	0.41	2.1	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 13	<	U	0.091	0.2	0.21	<	U	0.097	0.21	0.22	<	U	0.093	0.21	0.41	<	U	0.053	0.11	0.16
RDX	47	9 / 13	<	U	0.051	0.2	0.21	<	U	0.055	0.21	0.22	<	U	0.16	0.41	0.41	0.18	J	0.038	0.11	0.16
Tetryl	-	0 / 13	<	U	0.032	0.1	0.11	<	U	0.034	0.11	0.12	<	U	0.081	0.21	0.25	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-47
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084-EXPLOSIVES

FIELD ID			G0084					G0084					G0084					G0084		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/9/2016					8/11/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 13	<	UJ	0.033	0.11	0.16	<	0.23	0.46	1.1	U	<	0.24	0.47	1.2	U	<	1	U
1,3-Dinitrobenzene	-	0 / 13	<	UJ	0.053	0.11	0.16	<	0.1	0.23	0.46	U	<	0.10	0.24	0.47	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 13	<	UJ	0.053	0.11	0.16	<	0.082	0.23	0.46	U	<	0.085	0.24	0.47	U	<	0.41	U
2,4-Dinitrotoluene	0.13 J	1 / 13	<	UJ	0.053	0.11	0.14	0.13	0.095	0.23	0.46	J	<	0.099	0.24	0.47	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 13	<	UJ	0.053	0.11	0.14	<	0.073	0.23	0.23	U	<	0.076	0.24	0.24	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	2.7	7 / 13	<	UJ	0.032	0.11	0.16	0.56	0.058	0.14	0.23	J	<	0.060	0.14	0.24	U	0.97	0.21	J
2-Nitrotoluene	-	0 / 13	<	UJ	0.093	0.21	0.53	<	0.097	0.23	0.46	U	<	0.10	0.24	0.47	U	<	0.42	UJ
3-Nitrotoluene	-	0 / 13	<	UJ	0.06	0.21	0.53	<	0.095	0.23	0.46	U	<	0.098	0.24	0.47	U	<	0.42	UJ
4-Amino-2,6-dinitrotoluene	1.9	6 / 13	<	UJ	0.053	0.11	0.16	<	0.066	0.14	0.23	U	<	0.068	0.14	0.24	U	0.56	0.21	J
4-Nitrotoluene	-	0 / 13	<	UJ	0.093	0.21	0.53	<	0.23	0.46	1.1	U	<	0.24	0.47	1.2	U	<	1.1	UJ
HMX	12	10 / 13	4.7	J	0.038	0.11	0.16	<	0.1	0.23	0.46	U	6.3	0.10	0.24	0.47	J	7.9	0.42	
MNX	0.67 J	5 / 13	<	UJ	0.03	0.11	0.53	<	0.41	0.41	2.3	U	<	0.42	0.42	2.4	U	<	2.2	U
Nitrobenzene	-	0 / 13	<	UJ	0.053	0.11	0.16	<	0.1	0.23	0.46	U	<	0.11	0.24	0.47	U	<	0.41	U
RDX	47	9 / 13	2.1	J	0.038	0.11	0.16	<	0.06	0.14	0.23	U	12	0.062	0.14	0.24		23	0.21	
Tetryl	-	0 / 13	<	UJ	0.053	0.11	0.16	<	0.09	0.23	0.27	U	<	0.094	0.24	0.28	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-47
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084-EXPLOSIVES

FIELD ID			G0084			G0084			G0084			G0084			G0084		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/14/2012			3/14/2011			3/17/2010			3/12/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	0.13 J	1 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	2.7	7 / 13	1.8	0.8	J	1.2	0.8	J	2.4	0.8		2.7	0.2		2.3	0.48	
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	1.9	6 / 13	0.97	1.4	J	0.78	1.4	J	1.3	0.8		1.4	0.2		1.9	0.48	
4-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	1	U	<	0.48	U
HMX	12	10 / 13	8.6	0.8	J	7.8	0.8	J	11.4	0.8		11	0.4		12	0.48	
MNX	0.67 J	5 / 13	0.42	0.8	J	0.25	0.8	J	0.67	0.8	J	0.59	2	J	0.51	0.48	
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
RDX	47	9 / 13	24.1	0.8	J	25.7	0.8	J	38.2	0.8		36	0.4		47	0.48	
Tetryl	-	0 / 13	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-48
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085-EXPLOSIVES

FIELD ID			G0085					G0085					G0085					G0085				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/19/2021					6/13/2020					6/7/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 13	<	U	0.084	0.2	0.21	<	U	0.09	0.21	0.22	<	U	0.21	0.41	1	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 13	<	U	0.037	0.1	0.11	<	U	0.04	0.11	0.12	<	U	0.092	0.21	0.41	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 13	<	U	0.045	0.1	0.11	<	U	0.048	0.11	0.12	<	U	0.17	0.41	0.41	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 13	<	U	0.027	0.08	0.1	<	U	0.029	0.086	0.11	<	U	0.087	0.21	0.41	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 13	<	U	0.04	0.08	0.1	<	U	0.043	0.086	0.11	<	U	0.067	0.21	0.21	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	2	7 / 13	<	U	0.051	0.1	0.11	<	U	0.054	0.11	0.12	<	U	0.052	0.12	0.21	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 13	<	U	0.085	0.2	0.21	<	U	0.092	0.21	0.22	<	UJ	0.088	0.21	0.41	<	U	0.089	0.2	0.51
3-Nitrotoluene	-	0 / 13	<	U	0.19	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	1.1 J	5 / 13	<	U	0.058	0.12	0.15	<	U	0.062	0.13	0.16	<	UJ	0.06	0.12	0.21	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 13	<	U	0.1	0.4	0.41	<	U	0.11	0.43	0.44	<	UJ	0.21	0.41	1	<	U	0.089	0.2	0.51
HMX	48	11 / 13	<	U	0.088	0.2	0.21	0.49	J	0.094	0.21	0.22	0.53		0.091	0.21	0.41	2.3	J	0.028	0.1	0.15
MNX	1.4 J	5 / 13	<	U	0.15	0.4	2	<	U	0.16	0.43	2.1	<	U	0.16	0.41	2.1	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 13	<	U	0.091	0.2	0.21	<	U	0.097	0.21	0.22	<	U	0.094	0.21	0.41	<	U	0.051	0.1	0.15
RDX	37	9 / 13	<	U	0.051	0.2	0.21	<	U	0.055	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.037	0.1	0.15
Tetryl	0.46	1 / 13	<	U	0.032	0.1	0.11	<	U	0.034	0.11	0.12	0.46		0.082	0.21	0.25	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-48
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085-EXPLOSIVES

FIELD ID			G0085					G0085					G0085					G0085		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/15/2016					8/11/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 13	<	U	0.032	0.1	0.16	<	0.23	0.46	1.1	U	<	0.24	0.48	1.2	U	<	1	U
1,3-Dinitrobenzene	-	0 / 13	<	U	0.052	0.1	0.16	<	0.1	0.23	0.46	U	<	0.11	0.24	0.48	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 13	<	U	0.052	0.1	0.16	<	0.083	0.23	0.46	U	<	0.087	0.24	0.48	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 13	<	U	0.052	0.1	0.13	<	0.096	0.23	0.46	U	<	0.10	0.24	0.48	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 13	<	U	0.052	0.1	0.13	<	0.074	0.23	0.23	U	<	0.077	0.24	0.24	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	2	7 / 13	<	U	0.031	0.1	0.16	<	0.058	0.14	0.23	U	0.50	0.061	0.1	0.24	J	1.1	0.21	J
2-Nitrotoluene	-	0 / 13	<	U	0.091	0.21	0.52	<	0.098	0.23	0.46	U	<	0.10	0.24	0.48	U	<	0.42	UJ
3-Nitrotoluene	-	0 / 13	<	U	0.059	0.21	0.52	<	0.096	0.23	0.46	U	<	0.10	0.24	0.48	U	<	0.42	UJ
4-Amino-2,6-dinitrotoluene	1.1 J	5 / 13	<	U	0.052	0.1	0.16	<	0.066	0.14	0.23	U	<	0.069	0.14	0.24	U	0.95	0.21	J
4-Nitrotoluene	-	0 / 13	<	U	0.091	0.21	0.52	<	0.23	0.46	1.1	U	<	0.24	0.48	1.2	U	<	1.1	UJ
HMX	48	11 / 13	5.2	J	0.037	0.1	0.16	<	0.1	0.23	0.46	U	7.7	0.10	0.24	0.48	J	11	0.42	
MNX	1.4 J	5 / 13	<	U	0.029	0.1	0.52	<	0.41	0.41	2.3	U	1.4	0.43	0.43	2.4	J	<	2.2	U
Nitrobenzene	-	0 / 13	<	U	0.052	0.1	0.16	<	0.1	0.23	0.46	U	<	0.11	0.24	0.48	U	<	0.41	U
RDX	37	9 / 13	1.8		0.037	0.1	0.16	1.9	0.06	0.14	0.23	J	7.2	0.063	0.14	0.24	J	23	0.21	
Tetryl	0.46	1 / 13	<	U	0.052	0.1	0.16	<	0.091	0.23	0.28	U	<	0.095	0.24	0.29	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-48
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085-EXPLOSIVES

FIELD ID			G0085			G0085			G0085			G0085			G0085		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/21/2013			3/14/2012			3/11/2011			3/17/2010			3/12/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.99	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	2	7 / 13	1.2	0.8	J	1	0.8	J	0.98	0.8		2	0.2		1.1	0.48	
2-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	1.1 J	5 / 13	1.1	1.4	J	0.77	1.4	J	<	0.8	U	0.73	0.2		0.93	0.48	
4-Nitrotoluene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.99	U	<	0.48	U
HMX	48	11 / 13	14.2	0.8	J	9.8	0.8	J	5.2	0.8		9	0.4		48	0.48	
MNX	1.4 J	5 / 13	0.69	0.8	J	0.48	0.8	J	0.5	0.8	J	0.64	2	J	<	0.48	U
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U
RDX	37	9 / 13	36.4	0.8	J	29.2	0.8	J	9.7	0.8		25	0.2		37	0.48	
Tetryl	0.46	1 / 13	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-49
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086-EXPLOSIVES

FIELD ID			G0086					G0086					G0086					G0086				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/26/2021					6/16/2020					6/9/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	21 J	12 / 12	14	J	0.089	0.21	0.22	9.4	J	0.088	0.21	0.22	8.9		0.2	0.4	1	10		0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 12	<	UJ	0.039	0.11	0.12	<	UJ	0.039	0.1	0.12	<	U	0.089	0.2	0.4	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	10 J	11 / 12	4.9	J	0.048	0.11	0.12	3.6		0.047	0.1	0.12	2.5		0.16	0.4	0.4	2.7		0.051	0.1	0.15
2,4-Dinitrotoluene	0.053 J	1 / 12	0.053	J	0.029	0.084	0.11	<	J	0.029	0.084	0.1	<	U	0.084	0.2	0.4	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 12	<	UJ	0.042	0.084	0.11	<	UJ	0.042	0.084	0.1	<	U	0.065	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	3.8 J	12 / 12	1.4	J	0.054	0.11	0.12	1.6	J	0.053	0.1	0.12	1.4		0.051	0.12	0.2	1.6		0.031	0.1	0.15
2-Nitrotoluene	-	0 / 12	<	UJ	0.09	0.21	0.22	<	UJ	0.09	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.09	0.21	0.51
3-Nitrotoluene	-	0 / 12	<	UJ	0.21	0.42	0.42	<	UJ	0.2	0.42	0.42	<	UJ	0.2	0.4	0.4	<	U	0.058	0.21	0.51
4-Amino-2,6-dinitrotoluene	2.5	11 / 12	1.1	J	0.061	0.13	0.16	1.1	J	0.061	0.13	0.16	0.98		0.058	0.12	0.2	1.1		0.051	0.1	0.15
4-Nitrotoluene	-	0 / 12	<	UJ	0.11	0.42	0.43	<	UJ	0.1	0.42	0.43	<	UJ	0.2	0.4	1	<	U	0.09	0.21	0.51
HMX	3 J	11 / 12	0.44	J	0.093	0.21	0.22	<	UJ	0.092	0.21	0.22	0.26	J	0.088	0.2	0.4	0.53		0.029	0.1	0.15
MNX	-	0 / 12	<	UJ	0.16	0.42	2.1	<	UJ	0.16	0.42	2.1	<	U	0.15	0.4	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 12	<	UJ	0.096	0.21	0.22	<	UJ	0.096	0.21	0.22	<	U	0.091	0.2	0.4	<	U	0.051	0.1	0.15
RDX	6.3 J	12 / 12	0.84	J	0.054	0.21	0.22	0.21	J	0.054	0.21	0.22	0.18	J	0.16	0.4	0.4	0.26		0.037	0.1	0.15
Tetryl	-	0 / 12	<	UJ	0.034	0.11	0.12	<	UJ	0.033	0.1	0.12	<	U	0.079	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-49
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086-EXPLOSIVES

FIELD ID			G0086					G0086					G0086					G0086		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/11/2016					8/13/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	21 J	12 / 12	12	J	0.16	0.52	0.78	11	0.22	0.44	1.1		14	0.22	0.43	1.1		13	1.1	
1,3-Dinitrobenzene	-	0 / 12	<	UJ	0.052	0.1	0.16	<	0.098	0.22	0.44	U	<	0.096	0.22	0.43	U	<	0.43	U
2,4,6-Trinitrotoluene	10 J	11 / 12	2.7	J	0.052	0.1	0.16	<	0.08	0.22	0.44	U	3.9	0.078	0.22	0.43		4.2	0.43	
2,4-Dinitrotoluene	0.053 J	1 / 12	<	UJ	0.052	0.1	0.13	<	0.093	0.22	0.44	U	<	0.091	0.22	0.43	U	<	0.43	U
2,6-Dinitrotoluene	-	0 / 12	<	UJ	0.052	0.1	0.13	<	0.071	0.22	0.22	U	<	0.070	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	3.8 J	12 / 12	1.6	J	0.031	0.1	0.16	1.2	0.056	0.13	0.22		1.7	0.055	0.13	0.22		1.6	0.21	
2-Nitrotoluene	-	0 / 12	<	UJ	0.091	0.21	0.52	<	0.095	0.22	0.44	U	<	0.093	0.22	0.43	U	<	0.43	U
3-Nitrotoluene	-	0 / 12	<	UJ	0.059	0.21	0.52	<	0.092	0.22	0.44	U	<	0.090	0.22	0.43	U	<	0.43	U
4-Amino-2,6-dinitrotoluene	2.5	11 / 12	1.1	J	0.052	0.1	0.16	<	0.064	0.13	0.22	U	1.4	0.062	0.13	0.22		1.2	0.21	
4-Nitrotoluene	-	0 / 12	<	UJ	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.22	0.43	1.1	U	<	1.1	U
HMX	3 J	11 / 12	0.79	J	0.037	0.1	0.16	0.6	0.097	0.22	0.44		0.88	0.095	0.22	0.43		1.1	0.43	
MNX	-	0 / 12	<	UJ	0.029	0.1	0.52	<	0.4	0.4	2.2	U	<	0.39	0.39	2.2	U	<	2.1	U
Nitrobenzene	-	0 / 12	<	UJ	0.052	0.1	0.16	<	0.1	0.22	0.44	U	<	0.098	0.22	0.43	U	<	0.43	U
RDX	6.3 J	12 / 12	0.41	J	0.037	0.1	0.16	0.66	0.058	0.13	0.22		0.76	0.057	0.13	0.22		1.2	0.21	
Tetryl	-	0 / 12	<	UJ	0.052	0.1	0.16	<	0.088	0.22	0.27	U	<	0.086	0.22	0.26	U	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-49
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086-EXPLOSIVES

FIELD ID			G0086			G0086			G0086			G0086		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/13/2012			3/16/2011			3/17/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	21 J	12 / 12	12.8	0.8	J	16.1	0.8		11.8	0.8		21	1	J
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	10 J	11 / 12	4.2	0.8	J	6.2	0.8		6.6	0.8		10	0.4	J
2,4-Dinitrotoluene	0.053 J	1 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	3.8 J	12 / 12	2.3	0.8	J	2.5	0.8		3	0.8		3.8	0.2	J
2-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	2.5	11 / 12	2	1.4	J	2	1.4		2.5	0.8		2.3	0.2	J
4-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
HMX	3 J	11 / 12	1.9	0.8	J	1.9	0.8		2	0.8		3	0.4	J
MNX	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	6.3 J	12 / 12	2.5	0.8	J	4	0.8	J	4.6	0.8		6.3	0.2	J
Tetryl	-	0 / 12	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-50
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087-EXPLOSIVES

FIELD ID			G0087					G0087					G0087					G0087				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/15/2020					6/9/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 12	<	U	0.085	0.2	0.21	<	U	0.09	0.21	0.23	<	U	0.2	0.39	0.98	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 12	<	U	0.037	0.1	0.11	<	U	0.04	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 12	<	U	0.045	0.1	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 12	<	U	0.028	0.08	0.1	<	U	0.029	0.086	0.11	<	U	0.082	0.2	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 12	<	U	0.04	0.08	0.1	<	U	0.043	0.086	0.11	<	U	0.063	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.71	2 / 12	0.22		0.051	0.1	0.11	<	UJ	0.054	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 12	<	UJ	0.086	0.2	0.21	<	UJ	0.092	0.21	0.23	<	UJ	0.084	0.2	0.39	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 12	<	UJ	0.2	0.4	0.4	<	UJ	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	0.7	2 / 12	0.7		0.058	0.12	0.15	<	UJ	0.062	0.13	0.16	<	U	0.057	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 12	<	UJ	0.1	0.4	0.41	<	UJ	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98	<	U	0.09	0.2	0.51
HMX	1.3	11 / 12	0.7		0.088	0.2	0.21	0.37	J	0.094	0.21	0.23	0.36	J	0.086	0.2	0.39	0.54		0.029	0.1	0.15
MNX	-	0 / 12	<	U	0.15	0.4	2	<	U	0.17	0.43	2.1	<	U	0.15	0.39	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 12	<	U	0.092	0.2	0.21	<	U	0.098	0.21	0.23	<	U	0.089	0.2	0.39	<	U	0.051	0.1	0.15
RDX	1.1	6 / 12	0.23		0.052	0.2	0.21	0.15	J	0.055	0.21	0.23	<	U	0.16	0.39	0.39	0.072	J	0.037	0.1	0.15
Tetryl	-	0 / 12	<	U	0.032	0.1	0.11	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-50
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087-EXPLOSIVES

FIELD ID			G0087					G0087					G0087					G0087		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/9/2016					8/13/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 12	<	U	0.033	0.11	0.16	<	0.22	0.44	1.1	U	<	0.24	0.48	1.2	U	<	1.0	U
1,3-Dinitrobenzene	-	0 / 12	<	U	0.053	0.11	0.16	<	0.099	0.22	0.44	U	<	0.11	0.24	0.48	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 12	<	U	0.053	0.11	0.16	<	0.08	0.22	0.44	U	<	0.087	0.24	0.48	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 12	<	U	0.053	0.11	0.14	<	0.093	0.22	0.44	U	<	0.10	0.24	0.48	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	U	0.053	0.11	0.14	<	0.072	0.22	0.22	U	<	0.077	0.24	0.24	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.71	2 / 12	<	U	0.032	0.11	0.16	<	0.056	0.13	0.22	U	<	0.061	0.1	0.24	U	<	0.2	U
2-Nitrotoluene	-	0 / 12	<	U	0.093	0.21	0.53	<	0.095	0.22	0.44	U	<	0.10	0.24	0.48	U	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	U	0.06	0.21	0.53	<	0.093	0.22	0.44	U	<	0.10	0.24	0.48	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	0.7	2 / 12	<	U	0.053	0.11	0.16	<	0.064	0.13	0.22	U	<	0.069	0.14	0.24	U	<	0.2	U
4-Nitrotoluene	-	0 / 12	<	U	0.093	0.21	0.53	<	0.22	0.44	1.1	U	<	0.24	0.48	1.2	U	<	1.0	U
HMX	1.3	11 / 12	0.71		0.038	0.11	0.16	<	0.097	0.22	0.44	U	0.61	0.10	0.24	0.48		0.59	0.4	
MNX	-	0 / 12	<	U	0.03	0.11	0.53	<	0.4	0.4	2.2	U	<	0.43	0.43	2.4	U	<	2.0	U
Nitrobenzene	-	0 / 12	<	U	0.053	0.11	0.16	<	0.1	0.22	0.44	U	<	0.11	0.24	0.48	U	<	0.4	U
RDX	1.1	6 / 12	0.064	J	0.038	0.11	0.16	<	0.058	0.13	0.22	U	<	0.063	0.14	0.24	U	<	0.2	U
Tetryl	-	0 / 12	<	U	0.053	0.11	0.16	<	0.088	0.22	0.27	U	<	0.095	0.24	0.29	U	<	0.2	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-50
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087-EXPLOSIVES

FIELD ID			G0087			G0087			G0087			G0087		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/13/2012			3/16/2011			3/17/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.71	2 / 12	<	0.8	U	<	0.8	U	<	0.8	U	0.71	0.2	
2-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	0.7	2 / 12	<	1.4	U	<	1.4	U	<	0.8	U	0.57	0.2	J
4-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
HMX	1.3	11 / 12	0.76	0.8	J	0.71	0.8	J	0.65	0.8	J	1.3	0.4	
MNX	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	1.1	6 / 12	<	0.8	U	0.83	0.8	J	<	0.8	U	1.1	0.2	
Tetryl	-	0 / 12	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-51
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088-EXPLOSIVES

FIELD ID			G0088					G0088					G0088					G0088				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/15/2020					6/9/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	13.8	12 / 12	3.6	J	0.085	0.2	0.21	4.7		0.088	0.21	0.22	5.5		0.2	0.41	1	7		0.033	0.11	0.16
1,3-Dinitrobenzene	0.18 J	1 / 12	<	UJ	0.037	0.1	0.11	<	U	0.039	0.1	0.11	<	U	0.09	0.2	0.41	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	4.1	12 / 12	0.4	J	0.046	0.1	0.11	0.63	J	0.047	0.1	0.11	0.7		0.16	0.41	0.41	0.95		0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 12	<	UJ	0.028	0.081	0.1	<	U	0.029	0.084	0.1	<	U	0.085	0.2	0.41	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 12	<	UJ	0.041	0.081	0.1	<	U	0.042	0.084	0.1	<	U	0.066	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	3.5	12 / 12	0.21	J	0.051	0.1	0.11	0.44	J	0.053	0.1	0.11	0.45		0.052	0.12	0.2	0.94		0.032	0.11	0.16
2-Nitrotoluene	-	0 / 12	<	UJ	0.087	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.087	0.2	0.41	<	U	0.094	0.21	0.53
3-Nitrotoluene	-	0 / 12	<	UJ	0.2	0.41	0.41	<	U	0.2	0.42	0.42	<	UJ	0.2	0.41	0.41	<	U	0.061	0.21	0.53
4-Amino-2,6-dinitrotoluene	2.3	12 / 12	0.22	J	0.059	0.12	0.15	0.44	J	0.06	0.13	0.16	0.33		0.059	0.12	0.2	0.71		0.053	0.11	0.16
4-Nitrotoluene	-	0 / 12	<	UJ	0.1	0.41	0.42	<	UJ	0.1	0.42	0.43	<	UJ	0.2	0.41	1	<	U	0.094	0.21	0.53
HMX	3.7	9 / 12	<	UJ	0.089	0.2	0.21	<	U	0.091	0.21	0.22	<	U	0.089	0.2	0.41	0.21		0.03	0.11	0.16
MNX	0.43 J	2 / 12	<	UJ	0.16	0.41	2	<	U	0.16	0.42	2.1	<	U	0.16	0.41	2	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 12	<	UJ	0.092	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.093	0.2	0.41	<	U	0.053	0.11	0.16
RDX	7	9 / 12	<	UJ	0.052	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.16	0.41	0.41	0.16	J	0.038	0.11	0.16
Tetryl	-	0 / 12	<	UJ	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.081	0.2	0.24	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-51
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088-EXPLOSIVES

FIELD ID			G0088					G0088					G0088					G0088		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/16/2016					8/14/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	13.8	12 / 12	9.7		0.032	0.1	0.16	8.2	0.21	0.43	1.1		9.0	0.21	0.42	1.0		9.9	0.97	
1,3-Dinitrobenzene	0.18 J	1 / 12	<	U	0.052	0.1	0.16	<	0.095	0.21	0.43	U	<	0.093	0.21	0.42	U	<	0.39	U
2,4,6-Trinitrotoluene	4.1	12 / 12	1.3		0.052	0.1	0.16	1.1	0.078	0.21	0.43		1.3	0.076	0.21	0.42		1.3	0.39	
2,4-Dinitrotoluene	-	0 / 12	<	U	0.052	0.1	0.14	<	0.09	0.21	0.43	U	<	0.088	0.21	0.42	U	<	0.39	U
2,6-Dinitrotoluene	-	0 / 12	<	U	0.052	0.1	0.14	<	0.069	0.21	0.21	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	3.5	12 / 12	1.3		0.031	0.1	0.16	0.98	0.054	0.13	0.21		1.1	0.053	0.13	0.21		1.4	0.3	
2-Nitrotoluene	-	0 / 12	<	U	0.092	0.21	0.52	<	0.092	0.21	0.43	U	<	0.090	0.21	0.42	U	<	0.39	U
3-Nitrotoluene	-	0 / 12	<	U	0.059	0.21	0.52	<	0.089	0.21	0.43	U	<	0.087	0.21	0.42	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	2.3	12 / 12	0.99		0.052	0.1	0.16	0.82	0.062	0.13	0.21		0.90	0.060	0.13	0.21		1.5	0.19	
4-Nitrotoluene	-	0 / 12	<	U	0.092	0.21	0.52	<	0.21	0.43	1.1	U	<	0.21	0.42	1.0	U	<	0.97	U
HMX	3.7	9 / 12	0.37		0.038	0.1	0.16	0.32	0.094	0.21	0.43	J	0.41	0.092	0.21	0.42	J	0.83	0.39	
MNX	0.43 J	2 / 12	< 0.10	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.38	0.38	2.1	U	<	1.9	U
Nitrobenzene	-	0 / 12	<	U	0.052	0.1	0.16	<	0.098	0.21	0.43	U	<	0.095	0.21	0.42	U	<	0.39	U
RDX	7	9 / 12	0.2		0.038	0.1	0.16	0.32	0.056	0.13	0.21		0.31	0.055	0.13	0.21		0.77	0.19	
Tetryl	-	0 / 12	<	U	0.052	0.1	0.16	<	0.085	0.21	0.26	U	<	0.083	0.21	0.25	U	<	0.23	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-51
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088-EXPLOSIVES

FIELD ID			G0088			G0088			G0088			G0088		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/13/2012			3/14/2011			3/18/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	13.8	12 / 12	10.4	0.8	J	11.5	0.8		13.8	0.8		13	0.99	
1,3-Dinitrobenzene	0.18 J	1 / 12	<	0.8	U	<	0.8	U	<	0.8	U	0.18	0.4	J
2,4,6-Trinitrotoluene	4.1	12 / 12	1.7	0.8	J	1.8	0.8		2.8	0.8		4.1	0.4	
2,4-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	3.5	12 / 12	1.4	0.8	J	1.4	0.8		1.6	0.8		3.5	0.2	
2-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	2.3	12 / 12	1.4	1.4	J	1.2	1.4	J	1.5	0.8		2.3	0.2	
4-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U
HMX	3.7	9 / 12	1	0.8	J	1	0.8		1.8	0.8		3.7	0.4	
MNX	0.43 J	2 / 12	<	0.8	U	<	0.8	U	<	0.8	U	0.43	2	J
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	7	9 / 12	1.3	0.8	J	1.5	0.8	J	3.1	0.8		7	0.2	
Tetryl	-	0 / 12	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-52
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089-EXPLOSIVES

FIELD ID			G0089					G0089					G0089					G0089				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/15/2020					6/11/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	42 J	12 / 12	3.1		0.1	0.24	0.25	2.6		0.088	0.21	0.22	5.9	J	0.2	0.4	1	8.2		0.031	0.1	0.15
1,3-Dinitrobenzene	0.2 J	1 / 12	<	U	0.044	0.12	0.13	<	U	0.039	0.1	0.12	<	UJ	0.089	0.2	0.4	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	30 J	12 / 12	2.3		0.054	0.12	0.13	1.7		0.047	0.1	0.12	3.5	J	0.16	0.4	0.4	5.5		0.05	0.1	0.15
2,4-Dinitrotoluene	-	0 / 12	<	U	0.033	0.095	0.12	<	U	0.029	0.084	0.1	<	UJ	0.084	0.2	0.4	<	U	0.05	0.1	0.13
2,6-Dinitrotoluene	-	0 / 12	<	U	0.048	0.095	0.12	<	U	0.042	0.084	0.1	<	UJ	0.065	0.2	0.2	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	3.3	11 / 12	0.85		0.06	0.12	0.13	<	UJ	0.053	0.1	0.12	1.5	J	0.051	0.12	0.2	2		0.03	0.1	0.15
2-Nitrotoluene	-	0 / 12	<	U	0.1	0.24	0.25	<	UJ	0.09	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.089	0.2	0.5
3-Nitrotoluene	-	0 / 12	<	U	0.23	0.48	0.48	<	UJ	0.2	0.42	0.42	<	UJ	0.2	0.4	0.4	<	U	0.057	0.2	0.5
4-Amino-2,6-dinitrotoluene	4.6 J	11 / 12	1.1		0.069	0.14	0.18	<	UJ	0.061	0.13	0.16	1.7	J	0.058	0.12	0.2	2.4		0.05	0.1	0.15
4-Nitrotoluene	-	0 / 12	<	U	0.12	0.48	0.49	<	UJ	0.1	0.42	0.43	<	UJ	0.2	0.4	1	<	U	0.089	0.2	0.5
HMX	2	6 / 12	<	U	0.1	0.24	0.25	<	U	0.092	0.21	0.22	<	UJ	0.088	0.2	0.4	0.9		0.028	0.1	0.15
MNX	-	0 / 12	<	U	0.18	0.48	2.4	<	U	0.16	0.42	2.1	<	UJ	0.15	0.4	2	<	U	0.036	0.1	0.5
Nitrobenzene	-	0 / 12	<	U	0.11	0.24	0.25	<	U	0.096	0.21	0.22	<	UJ	0.091	0.2	0.4	<	U	0.05	0.1	0.15
RDX	3	11 / 12	0.23	J	0.061	0.24	0.25	<	U	0.054	0.21	0.22	0.32	J	0.16	0.4	0.4	2.1		0.036	0.1	0.15
Tetryl	-	0 / 12	<	U	0.038	0.12	0.13	<	U	0.033	0.1	0.12	<	UJ	0.08	0.2	0.24	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-52
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089-EXPLOSIVES

FIELD ID			G0089					G0089					G0089					G0089		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/8/2016					8/17/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	42 J	12 / 12	9.2	J	0.16	0.53	0.79	12	0.26	0.52	1.3		17	0.21	0.41	1.1	J	19	1	
1,3-Dinitrobenzene	0.2 J	1 / 12	<	U	0.053	0.11	0.16	<	0.11	0.26	0.52	U	<	0.092	0.21	0.41	U	<	0.4	U
2,4,6-Trinitrotoluene	30 J	12 / 12	9.9	J	0.053	0.11	0.16	8.6	0.094	0.26	0.52		12	0.075	0.21	0.42	J	14	0.4	
2,4-Dinitrotoluene	-	0 / 12	<	U	0.053	0.11	0.14	<	0.11	0.26	0.52	U	<	0.087	0.21	0.42	UJ	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	U	0.053	0.11	0.14	<	0.083	0.26	0.26	U	<	0.067	0.21	0.21	UJ	<	0.2	U
2-Amino-4,6-dinitrotoluene	3.3	11 / 12	3.1	J	0.032	0.11	0.16	1.9	0.065	0.15	0.26		2.6	0.053	0.12	0.21	J	2.5	0.2	
2-Nitrotoluene	-	0 / 12	<	U	0.093	0.21	0.53	<	0.11	0.26	0.52	U	<	0.089	0.21	0.42	UJ	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	U	0.06	0.21	0.53	<	0.11	0.26	0.52	U	<	0.086	0.21	0.42	UJ	<	0.4	U
4-Amino-2,6-dinitrotoluene	4.6 J	11 / 12	3.7	J	0.053	0.11	0.16	2.2	0.075	0.15	0.26		3.1	0.060	0.12	0.21	J	2.5	0.2	
4-Nitrotoluene	-	0 / 12	<	U	0.093	0.21	0.53	<	0.26	0.52	1.3	U	<	0.21	0.42	1.1	UJ	<	1	U
HMX	2	6 / 12	0.75	J	0.038	0.11	0.16	<	0.11	0.26	0.52	U	<	0.091	0.21	0.41	UJ	<	0.4	U
MNX	-	0 / 12	<	U	0.03	0.11	0.53	<	0.46	0.46	2.6	U	<	0.37	0.37	2.1	U	<	2	U
Nitrobenzene	-	0 / 12	<	U	0.053	0.11	0.16	<	0.12	0.26	0.52	U	<	0.094	0.21	0.42	UJ	<	0.4	U
RDX	3	11 / 12	2.7	J	0.038	0.11	0.16	1.4	0.068	0.15	0.26		0.54	0.054	0.12	0.21	J	0.51	0.2	
Tetryl	-	0 / 12	<	U	0.053	0.11	0.16	<	0.1	0.26	0.31	U	<	0.082	0.21	0.25	UJ	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-52
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089-EXPLOSIVES

FIELD ID			G0089			G0089			G0089			G0089		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/13/2012			3/14/2011			3/19/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	42 J	12 / 12	29	0.8	J	29.7	0.8		40.1	0.8		42	2	J
1,3-Dinitrobenzene	0.2 J	1 / 12	<	0.8	U	<	0.8	U	<	0.8	U	0.2	0.4	J
2,4,6-Trinitrotoluene	30 J	12 / 12	18.2	0.8	J	17.9	0.8	J	25.8	0.8		30	0.79	J
2,4-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	3.3	11 / 12	3.1	0.8	J	2.4	0.8		3	0.8		3.3	0.2	
2-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	4.6 J	11 / 12	4.6	1.4	J	3.3	1.4		3	0.8		3.4	0.2	
4-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U
HMX	2	6 / 12	0.93	0.8	J	1.3	0.8	J	1.5	0.8		2	0.4	
MNX	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	3	11 / 12	1.4	0.8	J	2.6	0.8	J	3	0.8		2.7	0.2	
Tetryl	-	0 / 12	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-53
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090-EXPLOSIVES

FIELD ID			G0090					G0090					G0090					G0090				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/20/2021					6/16/2020					6/9/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.7	9 / 12	<	U	0.08	0.19	0.2	<	U	0.09	0.21	0.22	<	U	0.2	0.39	0.99	1.5		0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 12	<	U	0.035	0.095	0.1	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	3	9 / 12	<	U	0.043	0.095	0.1	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39	0.38		0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 12	<	U	0.026	0.076	0.1	<	U	0.029	0.085	0.11	<	U	0.083	0.2	0.39	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 12	<	U	0.038	0.076	0.1	<	U	0.043	0.085	0.11	<	U	0.064	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	2.4 J	12 / 12	0.095	J	0.048	0.095	0.1	2.4	J	0.054	0.11	0.12	0.19	J	0.05	0.12	0.2	0.49		0.032	0.11	0.16
2-Nitrotoluene	-	0 / 12	<	U	0.081	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 12	<	U	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	0.92 J	6 / 12	<	U	0.055	0.11	0.14	<	U	0.062	0.13	0.16	<	U	0.057	0.12	0.2	0.23		0.053	0.11	0.16
4-Nitrotoluene	-	0 / 12	<	U	0.095	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.99	<	U	0.093	0.21	0.53
HMX	2.9	11 / 12	0.62		0.083	0.19	0.2	<	U	0.093	0.21	0.22	0.73		0.086	0.2	0.39	1.7		0.03	0.11	0.16
MNX	-	0 / 12	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1	<	U	0.15	0.39	2	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 12	<	U	0.086	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.09	0.2	0.39	<	U	0.053	0.11	0.16
RDX	12.1 J	12 / 12	0.64		0.049	0.19	0.2	0.45	J	0.055	0.21	0.22	0.6		0.16	0.39	0.39	1.7		0.038	0.11	0.16
Tetryl	-	0 / 12	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.24	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-53
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090-EXPLOSIVES

FIELD ID			G0090					G0090					G0090					G0090		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/12/2016					8/17/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	2.7	9 / 12	1.6		0.032	0.1	0.15	0.25	0.22	0.44	1.1	J	0.64	0.21	0.42	1.1	J	1	1	
1,3-Dinitrobenzene	-	0 / 12	<	U	0.052	0.1	0.15	<	0.098	0.22	0.44	U	<	0.094	0.21	0.42	U	<	0.39	U
2,4,6-Trinitrotoluene	3	9 / 12	0.7		0.052	0.1	0.15	0.6	0.08	0.22	0.44	J	1.1	0.076	0.21	0.42		1.6	0.39	
2,4-Dinitrotoluene	-	0 / 12	<	U	0.052	0.1	0.13	<	0.092	0.22	0.44	U	<	0.089	0.21	0.42	U	<	0.39	U
2,6-Dinitrotoluene	-	0 / 12	<	U	0.052	0.1	0.13	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	2.4 J	12 / 12	1.1		0.031	0.1	0.15	0.48	0.056	0.13	0.22		0.67	0.054	0.13	0.21		0.59	0.2	
2-Nitrotoluene	-	0 / 12	<	U	0.091	0.21	0.52	<	0.094	0.22	0.44	U	<	0.090	0.21	0.42	U	<	0.39	U
3-Nitrotoluene	-	0 / 12	<	U	0.059	0.21	0.52	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	0.92 J	6 / 12	0.74		0.052	0.1	0.15	<	0.064	0.13	0.22	U	0.78	0.061	0.12	0.21		0.62	0.2	
4-Nitrotoluene	-	0 / 12	<	U	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.096	0.42	1.1	U	<	1	U
HMX	2.9	11 / 12	2.8		0.037	0.1	0.15	0.63	0.097	0.22	0.44	J	2.4	0.093	0.21	0.42		2.2	0.39	
MNX	-	0 / 12	<	U	0.029	0.1	0.52	<	0.4	0.4	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 12	<	U	0.052	0.1	0.15	<	0.1	0.22	0.44	U	<	0.096	0.21	0.42	U	<	0.39	U
RDX	12.1 J	12 / 12	5.6		0.037	0.1	0.15	2.5	0.058	0.13	0.22		6.3	0.055	0.13	0.21		11	0.2	
Tetryl	-	0 / 12	<	U	0.052	0.1	0.15	<	0.087	0.22	0.26	U	<	0.084	0.21	0.25	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-53
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090-EXPLOSIVES

FIELD ID			G0090			G0090			G0090			G0090		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/13/2012			3/14/2011			3/19/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	2.7	9 / 12	2	0.8	J	1.2	0.8		2.7	0.8		1.1	1	
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	3	9 / 12	2.4	0.8	J	1.4	0.8		3	0.8		1.8	0.4	
2,4-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	2.4 J	12 / 12	0.8	0.8	J	0.35	0.8	J	0.67	0.8	J	0.78	0.2	
2-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	0.92 J	6 / 12	0.92	1.4	J	<	1.4	U	<	0.8	U	0.63	0.2	
4-Nitrotoluene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
HMX	2.9	11 / 12	2.9	0.8	J	1	0.8		1.4	0.8		2.9	0.4	
MNX	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	12.1 J	12 / 12	12.1	0.8	J	5.4	0.8		6	0.8		8.9	0.2	
Tetryl	-	0 / 12	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-54
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091-EXPLOSIVES

FIELD ID			G0091					G0091					G0091					G0091				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/16/2020					6/11/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 11	<	U	0.082	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.2	0.39	0.98	<	UJ	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 11	<	U	0.036	0.098	0.11	<	U	0.039	0.11	0.12	<	UJ	0.087	0.2	0.39	<	UJ	0.051	0.1	0.15
2,4,6-Trinitrotoluene	0.51 J	8 / 11	<	U	0.044	0.098	0.11	<	U	0.048	0.11	0.12	<	UJ	0.16	0.39	0.39	0.12	J	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 11	<	U	0.027	0.078	0.1	<	U	0.029	0.085	0.11	<	UJ	0.082	0.2	0.39	<	UJ	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 11	<	U	0.039	0.078	0.1	<	U	0.042	0.085	0.11	<	UJ	0.063	0.2	0.2	<	UJ	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.55 J	10 / 11	0.16	J	0.05	0.098	0.11	0.15		0.054	0.11	0.12	0.19	J	0.05	0.12	0.2	0.32	J	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 11	<	UJ	0.084	0.2	0.21	<	U	0.091	0.21	0.22	<	UJ	0.084	0.2	0.39	<	UJ	0.089	0.2	0.51
3-Nitrotoluene	-	0 / 11	<	UJ	0.19	0.39	0.39	<	U	0.21	0.42	0.42	<	UJ	0.19	0.39	0.39	<	UJ	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	0.29	8 / 11	0.17	J	0.056	0.12	0.15	0.21	J	0.061	0.13	0.16	0.19	J	0.056	0.12	0.2	0.2	J	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 11	<	UJ	0.098	0.39	0.4	<	U	0.11	0.42	0.43	<	UJ	0.2	0.39	0.98	<	UJ	0.089	0.2	0.51
HMX	1.1	9 / 11	0.3		0.086	0.2	0.21	<	U	0.093	0.21	0.22	0.61	J	0.086	0.2	0.39	0.72	J	0.028	0.1	0.15
MNX	-	0 / 11	<	U	0.15	0.39	2	<	U	0.16	0.42	2.1	<	UJ	0.15	0.39	2	<	UJ	0.037	0.1	0.51
Nitrobenzene	-	0 / 11	<	U	0.089	0.2	0.21	<	U	0.096	0.21	0.22	<	UJ	0.089	0.2	0.39	<	UJ	0.051	0.1	0.15
RDX	2.8	11 / 11	0.31		0.05	0.2	0.21	0.59		0.055	0.21	0.22	1.2	J	0.15	0.39	0.39	1.1	J	0.037	0.1	0.15
Tetryl	-	0 / 11	<	U	0.031	0.098	0.11	<	U	0.034	0.11	0.12	<	UJ	0.078	0.2	0.23	<	UJ	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-54
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091-EXPLOSIVES

FIELD ID			G0091					G0091					G0091					G0091		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/16/2016					8/12/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 11	<	U	0.034	0.11	0.17	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 11	<	U	0.055	0.11	0.17	<	0.098	0.22	0.44	U	<	0.094	0.21	0.42	U	<	0.42	U
2,4,6-Trinitrotoluene	0.51 J	8 / 11	0.17		0.055	0.11	0.17	0.13	0.08	0.22	0.44	J	0.19	0.076	0.21	0.42	J	0.23	0.42	J
2,4-Dinitrotoluene	-	0 / 11	<	U	0.055	0.11	0.14	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.42	U
2,6-Dinitrotoluene	-	0 / 11	<	U	0.055	0.11	0.14	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	0.55 J	10 / 11	<	U	0.033	0.11	0.17	0.26	0.056	0.13	0.22	J	0.37	0.054	0.13	0.21		0.38	0.21	J
2-Nitrotoluene	-	0 / 11	<	U	0.097	0.22	0.55	<	0.094	0.22	0.44	U	<	0.090	0.21	0.42	U	<	0.42	U
3-Nitrotoluene	-	0 / 11	<	U	0.063	0.22	0.55	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	0.29	8 / 11	0.25		0.055	0.11	0.17	0.15	0.064	0.13	0.22	J	0.29	0.061	0.13	0.21		0.27	0.21	
4-Nitrotoluene	-	0 / 11	<	U	0.097	0.22	0.55	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	1	U
HMX	1.1	9 / 11	0.58		0.04	0.11	0.17	<	0.097	0.22	0.44	U	0.35	0.093	0.21	0.42	J	0.3	0.42	J
MNX	-	0 / 11	<	U	0.031	0.11	0.55	<	0.4	0.4	2.2	U	<	0.38	0.38	2.1	U	<	2.1	U
Nitrobenzene	-	0 / 11	<	U	0.055	0.11	0.17	<	0.1	0.22	0.44	U	<	0.096	0.21	0.42	U	<	0.42	U
RDX	2.8	11 / 11	1.1		0.04	0.11	0.17	0.82	0.058	0.13	0.22		0.98	0.055	0.13	0.21		0.81	0.21	
Tetryl	-	0 / 11	<	U	0.055	0.11	0.17	<	0.088	0.22	0.26	U	<	0.084	0.21	0.25	U	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-54
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091-EXPLOSIVES

FIELD ID			G0091			G0091			G0091		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/7/2012			3/9/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	0.51 J	8 / 11	0.38	0.8	J	0.4	0.8	J	0.51	0.8	J
2,4-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	0.55 J	10 / 11	0.55	0.8	J	0.51	0.8	J	0.52	0.8	J
2-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	0.29	8 / 11	<	1.4	U	<	1.4	U	<	0.8	U
4-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
HMX	1.1	9 / 11	0.7	0.8	J	0.97	0.8		1.1	0.8	
MNX	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
RDX	2.8	11 / 11	1.5	0.8	J	2.5	0.8	J	2.8	0.8	
Tetryl	-	0 / 11	<	1.6	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-55
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092-EXPLOSIVES

FIELD ID			G0092					G0092					G0092					G0092				
METHOD	Maximum	Detection	SW846 8330A					SW846 8330A					SW846 8330A					SW846 8330A				
COLLECT DATE	Detection	Frequency	5/24/2021					6/16/2020					6/11/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 11	<	U	0.11	0.26	0.28	<	U	0.088	0.21	0.22	<	UJ	0.19	0.38	0.95	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 11	<	U	0.049	0.13	0.15	<	U	0.039	0.11	0.12	<	UJ	0.084	0.19	0.38	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 11	<	U	0.059	0.13	0.15	<	U	0.047	0.11	0.12	<	UJ	0.15	0.38	0.38	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 11	<	U	0.036	0.11	0.13	<	U	0.029	0.084	0.11	<	UJ	0.08	0.19	0.38	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 11	<	U	0.053	0.11	0.13	<	U	0.042	0.084	0.11	<	UJ	0.061	0.19	0.19	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 11	<	U	0.067	0.13	0.15	<	U	0.053	0.11	0.12	<	UJ	0.048	0.11	0.19	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 11	<	UJ	0.11	0.26	0.28	<	U	0.09	0.21	0.22	<	UJ	0.081	0.19	0.38	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 11	<	UJ	0.26	0.53	0.53	<	U	0.21	0.42	0.42	<	UJ	0.19	0.38	0.38	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	-	0 / 11	<	U	0.076	0.16	0.2	<	U	0.061	0.13	0.16	<	UJ	0.055	0.11	0.19	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 11	<	UJ	0.13	0.53	0.54	<	U	0.11	0.42	0.43	<	UJ	0.19	0.38	0.95	<	U	0.093	0.21	0.53
HMX	0.23 J	7 / 11	<	U	0.12	0.26	0.28	<	U	0.092	0.21	0.22	<	UJ	0.083	0.19	0.38	0.18		0.03	0.11	0.16
MNX	0.047 J	1 / 11	<	U	0.2	0.53	2.6	<	U	0.16	0.42	2.1	<	UJ	0.15	0.38	1.9	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 11	<	U	0.12	0.26	0.28	<	U	0.096	0.21	0.22	<	UJ	0.087	0.19	0.38	<	U	0.053	0.11	0.16
RDX	0.72 J	5 / 11	<	U	0.068	0.26	0.28	<	U	0.054	0.21	0.22	<	UJ	0.15	0.38	0.38	<	U	0.038	0.11	0.16
Tetryl	-	0 / 11	<	U	0.042	0.13	0.15	<	U	0.033	0.11	0.12	<	UJ	0.075	0.19	0.23	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-55
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092-EXPLOSIVES

FIELD ID			G0092					G0092					G0092					G0092		
METHOD	Maximum	Detection	SW846 M8330					SW846 8330A					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/16/2016					8/12/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 11	<	U	0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.42	1.0	U	<	1	U
1,3-Dinitrobenzene	-	0 / 11	<	U	0.052	0.1	0.15	<	0.097	0.22	0.44	U	<	0.093	0.21	0.42	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 11	<	U	0.052	0.1	0.15	<	0.080	0.22	0.44	U	<	0.076	0.21	0.42	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 11	<	U	0.052	0.1	0.13	<	0.092	0.22	0.44	U	<	0.087	0.21	0.42	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 11	<	U	0.052	0.1	0.13	<	0.071	0.22	0.22	U	<	0.067	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	-	0 / 11	<	U	0.031	0.1	0.15	<	0.056	0.13	0.22	U	<	0.053	0.13	0.21	U	<	0.21	UJ
2-Nitrotoluene	-	0 / 11	<	U	0.091	0.21	0.52	<	0.094	0.22	0.44	U	<	0.089	0.21	0.42	U	<	0.41	U
3-Nitrotoluene	-	0 / 11	<	U	0.059	0.21	0.52	<	0.092	0.22	0.44	U	<	0.087	0.21	0.42	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 11	<	U	0.052	0.1	0.15	<	0.063	0.13	0.22	U	<	0.060	0.13	0.21	U	<	0.21	U
4-Nitrotoluene	-	0 / 11	<	U	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.42	1	U	<	1	U
HMX	0.23 J	7 / 11	0.14	J	0.037	0.1	0.15	0.20	0.096	0.22	0.44	J	0.23	0.091	0.21	0.42	J	0.21	0.41	J
MNX	0.047 J	1 / 11	0.047	J	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.37	0.37	2.1	U	<	2.1	U
Nitrobenzene	-	0 / 11	<	U	0.052	0.1	0.15	<	0.10	0.22	0.44	U	<	0.095	0.21	0.42	U	<	0.41	U
RDX	0.72 J	5 / 11	0.22	J	0.037	0.1	0.15	0.17	0.057	0.13	0.22	J	0.11	0.055	0.13	0.21	J	0.16	0.21	J
Tetryl	-	0 / 11	<	U	0.052	0.1	0.15	<	0.087	0.22	0.26	U	<	0.083	0.21	0.25	U	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-55
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092-EXPLOSIVES

FIELD ID			G0092			G0092			G0092		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/7/2012			3/9/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 11	<	1.4	U	<	1.4	U	<	0.8	U
4-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
HMX	0.23 J	7 / 11	0.19	0.8	J	0.18	0.8	J	<	0.8	U
MNX	0.047 J	1 / 11	<	0.8	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
RDX	0.72 J	5 / 11	<	0.8	U	0.72	0.8	J	<	0.8	U
Tetryl	-	0 / 11	<	1.6	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-56
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093-EXPLOSIVES

FIELD ID			G0093					G0093					G0093					G0093				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/16/2020					6/11/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	73.6 J	10 / 11	9.1		0.083	0.2	0.21	0.45	J	0.09	0.21	0.23	16	J	0.2	0.4	0.99	20		0.15	0.5	0.75
1,3-Dinitrobenzene	-	0 / 11	<	U	0.036	0.099	0.11	<	UJ	0.04	0.11	0.12	<	UJ	0.088	0.2	0.4	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	11.9	9 / 11	3.4		0.044	0.099	0.11	<	UJ	0.048	0.11	0.12	5.1	J	0.16	0.4	0.4	3.5		0.05	0.1	0.15
2,4-Dinitrotoluene	0.11 J	2 / 11	<	U	0.027	0.079	0.1	<	UJ	0.029	0.086	0.11	<	UJ	0.083	0.2	0.4	<	U	0.05	0.1	0.13
2,6-Dinitrotoluene	-	0 / 11	<	U	0.04	0.079	0.1	<	UJ	0.043	0.086	0.11	<	UJ	0.064	0.2	0.2	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	5.6	11 / 11	2.5	J	0.05	0.099	0.11	1.8	J	0.054	0.11	0.12	2.9	J	0.05	0.12	0.2	1.9		0.03	0.1	0.15
2-Nitrotoluene	-	0 / 11	<	UJ	0.085	0.2	0.21	<	UJ	0.092	0.21	0.23	<	UJ	0.085	0.2	0.4	<	U	0.088	0.2	0.5
3-Nitrotoluene	-	0 / 11	<	UJ	0.19	0.4	0.4	<	UJ	0.21	0.43	0.43	<	UJ	0.19	0.4	0.4	<	U	0.057	0.2	0.5
4-Amino-2,6-dinitrotoluene	7.4 J	10 / 11	2.8	J	0.057	0.12	0.15	<	UJ	0.062	0.13	0.16	6.7	J	0.057	0.12	0.2	2.5		0.05	0.1	0.15
4-Nitrotoluene	-	0 / 11	<	UJ	0.099	0.4	0.41	<	UJ	0.11	0.43	0.44	<	UJ	0.2	0.4	0.99	<	U	0.088	0.2	0.5
HMX	3.1	8 / 11	0.96		0.087	0.2	0.21	<	UJ	0.094	0.21	0.23	<	UJ	0.087	0.2	0.4	0.82	J	0.028	0.1	0.15
MNX	-	0 / 11	<	U	0.15	0.4	2	<	UJ	0.17	0.43	2.1	<	UJ	0.15	0.4	2	<	U	0.036	0.1	0.5
Nitrobenzene	-	0 / 11	<	U	0.09	0.2	0.21	<	UJ	0.098	0.21	0.23	<	UJ	0.09	0.2	0.4	<	U	0.05	0.1	0.15
RDX	8.7	10 / 11	7.8		0.051	0.2	0.21	<	UJ	0.055	0.21	0.23	2	J	0.16	0.4	0.4	0.62		0.036	0.1	0.15
Tetryl	-	0 / 11	<	U	0.031	0.099	0.11	<	UJ	0.034	0.11	0.12	<	UJ	0.079	0.2	0.24	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-56
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093-EXPLOSIVES

FIELD ID			G0093					G0093					G0093					G0093		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/16/2016					8/14/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	73.6 J	10 / 11	18		0.16	0.52	0.78	<	0.22	0.44	1.1	U	54	1.10	2.1	5.4		39	1	
1,3-Dinitrobenzene	-	0 / 11	<	U	0.052	0.1	0.16	<	0.099	0.22	0.44	U	<	0.095	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	11.9	9 / 11	4.8		0.052	0.1	0.16	<	0.08	0.22	0.44	U	9.9	0.078	0.21	0.43		4.6	0.41	
2,4-Dinitrotoluene	0.11 J	2 / 11	0.11	J	0.052	0.1	0.14	<	0.093	0.22	0.44	U	0.11	0.090	0.21	0.43	J	<	0.41	U
2,6-Dinitrotoluene	-	0 / 11	<	U	0.052	0.1	0.14	<	0.072	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	5.6	11 / 11	2.1		0.031	0.1	0.16	5.6	0.056	0.13	0.22		3.9	0.054	0.13	0.21		2.1	0.21	J
2-Nitrotoluene	-	0 / 11	<	U	0.092	0.21	0.52	<	0.095	0.22	0.44	U	<	0.092	0.21	0.43	U	<	0.42	UJ
3-Nitrotoluene	-	0 / 11	<	U	0.059	0.21	0.52	<	0.093	0.22	0.44	U	<	0.090	0.21	0.43	U	<	0.42	UJ
4-Amino-2,6-dinitrotoluene	7.4 J	10 / 11	2.9		0.052	0.1	0.16	6.5	0.064	0.13	0.22	J	4.9	0.062	0.13	0.21		1.5	0.21	J
4-Nitrotoluene	-	0 / 11	<	U	0.092	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1.1	UJ
HMX	3.1	8 / 11	1.9	J	0.037	0.1	0.16	<	0.097	0.22	0.44	U	1.1	0.094	0.21	0.43		1.4	0.42	
MNX	-	0 / 11	<	U	0.029	0.1	0.52	<	0.4	0.4	2.2	U	<	0.38	0.38	2.1	U	<	1.9	U
Nitrobenzene	-	0 / 11	<	U	0.052	0.1	0.16	<	0.1	0.22	0.44	U	<	0.098	0.21	0.43	U	<	0.41	U
RDX	8.7	10 / 11	1.4	J	0.037	0.1	0.16	14	0.058	0.13	0.22		1.7	0.056	0.13	0.21		0.69	0.21	
Tetryl	-	0 / 11	<	U	0.052	0.1	0.16	<	0.088	0.22	0.27	U	<	0.085	0.21	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-56
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093-EXPLOSIVES

FIELD ID			G0093			G0093			G0093		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/13/2012			3/14/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	73.6 J	10 / 11	73.6	0.8	J	64.2	0.8		47.1	0.8	
1,3-Dinitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	11.9	9 / 11	11.3	0.8	J	11.9	0.8		6.8	0.8	
2,4-Dinitrotoluene	0.11 J	2 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	5.6	11 / 11	4.7	0.8	J	4.4	0.8		2.2	0.8	
2-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	7.4 J	10 / 11	7.4	1.4	J	6.2	1.4		2.4	0.8	
4-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
HMX	3.1	8 / 11	2.5	0.8	J	2.5	0.8		3.1	0.8	
MNX	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
RDX	8.7	10 / 11	5.2	0.8	J	6.5	0.8		8.7	0.8	
Tetryl	-	0 / 11	<	1.6	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-57
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094-EXPLOSIVES

FIELD ID			G0094					G0094					G0094					G0094				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/15/2020					6/11/2019					3/23/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	15.1	2 / 11	<	UJ	0.086	0.2	0.21	<	U	0.092	0.22	0.23	<	UJ	0.2	0.39	0.98	0.25	J	0.032	0.1	0.16
1,3-Dinitrobenzene	0.29 J	1 / 11	<	UJ	0.038	0.1	0.11	0.29	J	0.04	0.11	0.12	<	UJ	0.087	0.2	0.39	<	UJ	0.052	0.1	0.16
2,4,6-Trinitrotoluene	156	5 / 11	19	J	0.046	0.1	0.11	8.5		0.049	0.11	0.12	<	UJ	0.16	0.39	0.39	4.9	J	0.052	0.1	0.16
2,4-Dinitrotoluene	0.9 J	2 / 11	<	UJ	0.028	0.081	0.1	<	U	0.03	0.087	0.11	<	UJ	0.082	0.2	0.39	0.9	J	0.052	0.1	0.13
2,6-Dinitrotoluene	0.13 J	1 / 11	<	UJ	0.041	0.081	0.1	<	U	0.044	0.087	0.11	<	UJ	0.063	0.2	0.2	0.13	J	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	62.2	8 / 11	35	J	0.26	0.51	0.56	13		0.055	0.11	0.12	17	J	0.05	0.12	0.2	22	J	0.31	1	1.6
2-Nitrotoluene	0.24 J	1 / 11	<	UJ	0.087	0.2	0.21	<	U	0.093	0.22	0.23	<	UJ	0.084	0.2	0.39	<	UJ	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 11	<	UJ	0.2	0.41	0.41	<	U	0.21	0.44	0.44	<	UJ	0.19	0.39	0.39	<	UJ	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	73.7	6 / 11	39	J	0.29	0.61	0.76	9.7		0.063	0.13	0.16	24	J	0.057	0.12	0.2	22	J	0.52	1	1.6
4-Nitrotoluene	-	0 / 11	<	UJ	0.1	0.41	0.42	<	U	0.11	0.44	0.45	<	UJ	0.2	0.39	0.98	<	UJ	0.091	0.21	0.52
HMX	34 J	4 / 11	<	UJ	0.089	0.2	0.21	<	U	0.095	0.22	0.23	29	J	0.86	2	3.9	34	J	0.029	1	1.6
MNX	3.8	5 / 11	<	UJ	0.16	0.41	2	<	U	0.17	0.44	2.2	3.6	J	0.15	0.39	2	1.1	J	0.37	0.1	0.52
Nitrobenzene	15 J	2 / 11	15	J	0.093	0.2	0.21	<	U	0.099	0.22	0.23	<	UJ	0.09	0.2	0.39	<	UJ	0.052	0.1	0.16
RDX	59	7 / 11	8.1	J	0.052	0.2	0.21	2.7	J	0.056	0.22	0.23	7.3	J	0.16	0.39	0.39	16	J	0.37	1	1.6
Tetryl	-	0 / 11	<	UJ	0.032	0.1	0.11	<	U	0.035	0.11	0.12	<	UJ	0.078	0.2	0.24	<	UJ	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-57
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094-EXPLOSIVES

FIELD ID			G0094					G0094					G0094					G0094		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/12/2016					8/12/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	15.1	2 / 11	<	U	0.033	0.11	0.16	<	0.23	0.46	1.2	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	0.29 J	1 / 11	<	U	0.053	0.11	0.16	<	0.1	0.23	0.46	U	<	0.095	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	156	5 / 11	<	U	0.053	0.11	0.16	0.39	0.084	0.23	0.46	J	<	0.078	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	0.9 J	2 / 11	<	U	0.053	0.11	0.14	0.11	0.097	0.23	0.46	J	<	0.090	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	0.13 J	1 / 11	<	U	0.053	0.11	0.14	<	0.075	0.23	0.23	U	<	0.069	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	62.2	8 / 11	14		0.32	1.1	1.6	2.3	0.059	0.14	0.23		<	0.054	0.13	0.21	U	0.17	0.21	J
2-Nitrotoluene	0.24 J	1 / 11	<	U	0.093	0.21	0.53	0.24	0.099	0.23	0.46	J	<	0.092	0.21	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 11	<	U	0.06	0.21	0.53	<	0.097	0.23	0.46	U	<	0.090	0.21	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	73.7	6 / 11	14		0.53	1.1	1.6	<	0.067	0.14	0.23	U	<	0.062	0.13	0.21	U	<	0.21	U
4-Nitrotoluene	-	0 / 11	<	U	0.093	0.21	0.53	<	0.23	0.46	1.2	U	<	0.21	0.43	1.1	U	<	1	U
HMX	34 J	4 / 11	26		0.38	1.1	1.6	<	0.1	0.23	0.46	U	<	0.094	0.21	0.43	U	<	0.41	U
MNX	3.8	5 / 11	3.8		0.029	0.11	0.53	<	0.42	0.42	2.3	U	<	0.38	0.38	2.1	U	0.86	2.2	
Nitrobenzene	15 J	2 / 11	0.3		0.053	0.11	0.16	<	0.11	0.23	0.46	U	<	0.098	0.21	0.43	U	<	0.41	U
RDX	59	7 / 11	59		0.38	1.1	1.6	9.7	0.061	0.14	0.23		<	0.056	0.13	0.21	U	<	0.21	U
Tetryl	-	0 / 11	<	U	0.053	0.11	0.16	<	0.092	0.23	0.28	U	<	0.085	0.21	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-57
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094-EXPLOSIVES

FIELD ID			G0094			G0094			G0094		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/14/2012			3/11/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	15.1	2 / 11	<	0.8	U	<	0.8	U	15.1	0.8	
1,3-Dinitrobenzene	0.29 J	1 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	156	5 / 11	<	0.8	U	<	0.8	U	156	4	
2,4-Dinitrotoluene	0.9 J	2 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	0.13 J	1 / 11	<	0.8	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	62.2	8 / 11	<	0.8	U	<	0.8	U	62.2	0.8	
2-Nitrotoluene	0.24 J	1 / 11	<	0.8	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	73.7	6 / 11	<	1.4	U	<	1.4	U	73.7	4	
4-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	U	<	0.8	U
HMX	34 J	4 / 11	<	0.8	U	<	0.8	U	3	0.8	J
MNX	3.8	5 / 11	<	0.8	U	<	0.8	U	0.6	0.8	J
Nitrobenzene	15 J	2 / 11	<	0.8	U	<	0.8	U	<	0.8	U
RDX	59	7 / 11	<	0.8	U	<	0.8	U	3.1	0.8	
Tetryl	-	0 / 11	<	1.6	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-58
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095-EXPLOSIVES

FIELD ID			G0095					G0095					G0095					G0095				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/12/2020					6/7/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	673 J	4 / 11	<	U	0.08	0.19	0.2	0.93		0.09	0.21	0.22	<	U	0.2	0.4	1	<	UJ	0.034	0.11	0.16
1,3-Dinitrobenzene	-	0 / 11	<	U	0.035	0.095	0.1	<	U	0.039	0.11	0.12	<	U	0.088	0.2	0.4	<	UJ	0.054	0.11	0.16
2,4,6-Trinitrotoluene	487	3 / 11	<	U	0.043	0.095	0.1	<	U	0.048	0.11	0.12	<	U	0.16	0.4	0.4	<	UJ	0.054	0.11	0.16
2,4-Dinitrotoluene	1.2 J	2 / 11	<	U	0.026	0.076	0.1	<	U	0.029	0.085	0.11	<	U	0.084	0.2	0.4	<	UJ	0.054	0.11	0.14
2,6-Dinitrotoluene	0.82	2 / 11	<	U	0.038	0.076	0.1	<	U	0.043	0.085	0.11	<	U	0.064	0.2	0.2	<	UJ	0.054	0.11	0.14
2-Amino-4,6-dinitrotoluene	69.2 J	7 / 11	0.55		0.048	0.095	0.1	<	U	0.054	0.11	0.12	<	U	0.051	0.12	0.2	0.39	J	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 11	<	UJ	0.081	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.085	0.2	0.4	<	UJ	0.095	0.22	0.54
3-Nitrotoluene	-	0 / 11	<	UJ	0.18	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.19	0.4	0.4	<	UJ	0.062	0.22	0.54
4-Amino-2,6-dinitrotoluene	403 J	6 / 11	0.36	J	0.055	0.11	0.14	<	U	0.061	0.13	0.16	<	UJ	0.058	0.12	0.2	0.28	J	0.054	0.11	0.16
4-Nitrotoluene	-	0 / 11	<	UJ	0.095	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.4	1	<	UJ	0.095	0.22	0.54
HMX	25.9 J	5 / 11	<	U	0.083	0.19	0.2	<	U	0.093	0.21	0.22	<	U	0.087	0.2	0.4	0.52	J	0.03	0.11	0.16
MNX	0.95 J	3 / 11	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1	<	U	0.15	0.4	2	<	UJ	0.039	0.11	0.54
Nitrobenzene	-	0 / 11	<	U	0.086	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.091	0.2	0.4	<	UJ	0.054	0.11	0.16
RDX	23.9 J	7 / 11	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22	0.79	J	0.16	0.4	0.4	0.17	J	0.039	0.11	0.16
Tetryl	-	0 / 11	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12	<	U	0.079	0.2	0.24	<	UJ	0.054	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-58
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095-EXPLOSIVES

FIELD ID			G0095					G0095					G0095					G0095		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2017					8/10/2016					8/17/2015					8/11/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	673 J	4 / 11	<	UJ	0.033	0.11	0.16	<	0.23	0.45	1.1	U	<	0.24	0.49	1.2	U	<	1.1	U
1,3-Dinitrobenzene	-	0 / 11	<	UJ	0.053	0.11	0.16	<	0.1	0.23	0.45	U	<	0.11	0.24	0.49	U	<	0.43	U
2,4,6-Trinitrotoluene	487	3 / 11	<	UJ	0.053	0.11	0.16	<	0.082	0.23	0.45	U	<	0.088	0.24	0.49	U	<	0.43	U
2,4-Dinitrotoluene	1.2 J	2 / 11	<	UJ	0.053	0.11	0.14	<	0.095	0.23	0.45	U	<	0.10	0.24	0.49	UJ	<	0.43	U
2,6-Dinitrotoluene	0.82	2 / 11	0.28	J	0.053	0.11	0.14	<	0.073	0.23	0.23	U	<	0.078	0.24	0.24	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	69.2 J	7 / 11	0.47	J	0.032	0.11	0.16	<	0.058	0.14	0.23	U	1.2	0.062	0.15	0.24		<	0.21	U
2-Nitrotoluene	-	0 / 11	<	UJ	0.093	0.21	0.53	<	0.097	0.23	0.45	U	<	0.10	0.24	0.49	UJ	<	0.43	U
3-Nitrotoluene	-	0 / 11	<	UJ	0.06	0.21	0.53	<	0.095	0.23	0.45	U	<	0.10	0.24	0.49	UJ	<	0.44	U
4-Amino-2,6-dinitrotoluene	403 J	6 / 11	0.32	J	0.053	0.11	0.16	<	0.066	0.14	0.23	U	<	0.070	0.15	0.24	U	<	0.21	U
4-Nitrotoluene	-	0 / 11	<	UJ	0.093	0.21	0.53	<	0.23	0.45	1.1	U	<	0.24	0.49	1.2	UJ	<	1.1	U
HMX	25.9 J	5 / 11	1.3	J	0.038	0.11	0.16	<	0.1	0.23	0.45	U	2.5	0.11	0.24	0.49		<	0.43	U
MNX	0.95 J	3 / 11	0.27	J	0.029	0.11	0.53	<	0.41	0.41	2.3	U	<	0.44	0.44	2.4	U	0.65	2.1	J
Nitrobenzene	-	0 / 11	<	UJ	0.053	0.11	0.16	<	0.1	0.23	0.45	U	<	0.11	0.24	0.49	U	<	0.43	U
RDX	23.9 J	7 / 11	1.1	J	0.038	0.11	0.16	<	0.059	0.14	0.23	U	0.45	0.064	0.15	0.24	J	<	0.21	U
Tetryl	-	0 / 11	<	UJ	0.053	0.11	0.16	<	0.09	0.23	0.27	U	<	0.096	0.24	0.29	U	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-58
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095-EXPLOSIVES

FIELD ID			G0095			G0095			G0095		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/15/2012			3/10/2011		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	673 J	4 / 11	5.2	0.8	J	673	16	J	329	8	
1,3-Dinitrobenzene	-	0 / 11	<	0.8	U	<	0.8	UJ	<	0.8	U
2,4,6-Trinitrotoluene	487	3 / 11	5.2	0.8	J	235	16	J	487	8	
2,4-Dinitrotoluene	1.2 J	2 / 11	1.2	0.8	J	<	0.8	UJ	0.61	0.8	J
2,6-Dinitrotoluene	0.82	2 / 11	<	0.8	U	<	0.8	UJ	0.82	0.8	
2-Amino-4,6-dinitrotoluene	69.2 J	7 / 11	8.2	0.8	J	69.2	16	J	34	0.8	
2-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	UJ	<	0.8	U
3-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	UJ	<	0.8	U
4-Amino-2,6-dinitrotoluene	403 J	6 / 11	13.6	1.4	J	403	28.8	J	218	8	
4-Nitrotoluene	-	0 / 11	<	0.8	U	<	0.8	UJ	<	0.8	U
HMX	25.9 J	5 / 11	<	0.8	U	25.9	0.8	J	9	0.8	
MNX	0.95 J	3 / 11	<	0.8	U	<	0.8	UJ	0.95	0.8	J
Nitrobenzene	-	0 / 11	<	0.8	U	<	0.8	UJ	<	0.8	U
RDX	23.9 J	7 / 11	0.7	0.8	J	23.9	16	J	10.3	0.8	
Tetryl	-	0 / 11	<	1.6	U	<	0.8	UJ	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-59
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096 -EXPLOSIVES

FIELD ID			G0096					G0096					G0096					G0096				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/16/2020					6/11/2019					3/23/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	60.3 J	9 / 10	<	UJ	0.083	0.2	0.21	13		0.091	0.22	0.23	3	J	0.2	0.39	0.98	2.7		0.032	0.1	0.15
1,3-Dinitrobenzene	5 J	1 / 10	<	UJ	0.037	0.099	0.11	<	U	0.04	0.11	0.12	<	UJ	0.087	0.2	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	8.1 J	10 / 10	0.38	J	0.045	0.099	0.11	0.96		0.049	0.11	0.12	0.71	J	0.16	0.39	0.39	0.27		0.051	0.1	0.15
2,4-Dinitrotoluene	0.12 J	2 / 10	<	UJ	0.027	0.079	0.1	0.047	J	0.03	0.086	0.11	<	UJ	0.082	0.2	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	0.14 J	1 / 10	<	UJ	0.04	0.079	0.1	<	U	0.043	0.086	0.11	<	UJ	0.063	0.2	0.2	0.14	J	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	2.4 J	9 / 10	1.1	J	0.05	0.099	0.11	1.1	J	0.055	0.11	0.12	1.2	J	0.05	0.12	0.2	0.71		0.031	0.1	0.15
2-Nitrotoluene	-	0 / 10	<	UJ	0.085	0.2	0.21	<	U	0.092	0.22	0.23	<	UJ	0.084	0.2	0.39	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 10	<	UJ	0.19	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	3.6 J	10 / 10	1.7	J	0.057	0.12	0.15	1.5		0.062	0.13	0.16	1.5	J	0.056	0.12	0.2	0.8		0.051	0.1	0.15
4-Nitrotoluene	-	0 / 10	<	UJ	0.099	0.4	0.41	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98	<	U	0.09	0.2	0.51
HMX	39 J	9 / 10	39	J	0.87	2	2.1	9.7		0.095	0.22	0.23	11	J	0.086	0.2	0.39	5.3		0.029	0.1	0.15
MNX	1.6 J	7 / 10	<	UJ	0.15	0.4	2	1.6	J	0.17	0.43	2.2	1.1	J	0.15	0.39	2	0.69		0.037	0.1	0.51
Nitrobenzene	-	0 / 10	<	UJ	0.09	0.2	0.21	<	U	0.098	0.22	0.23	<	UJ	0.089	0.2	0.39	<	U	0.051	0.1	0.15
RDX	78.2 J	10 / 10	58	J	0.51	2	2.1	36		0.56	2.2	2.3	36	J	1.5	3.9	3.9	19		0.18	0.51	0.77
Tetryl	-	0 / 10	<	UJ	0.031	0.099	0.11	<	U	0.034	0.11	0.12	<	UJ	0.078	0.2	0.23	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-59
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096 -EXPLOSIVES

FIELD ID			G0096					G0096					G0096					G0096		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/10/2016					8/12/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	60.3 J	9 / 10	3.6		0.064	0.21	0.31	3.8	0.22	0.45	1.1		4.5	0.22	0.45	1.1		4.9	1	
1,3-Dinitrobenzene	5 J	1 / 10	<	U	0.1	0.21	0.31	<	0.099	0.22	0.45	U	<	0.099	0.22	0.45	U	5.00	0.42	U
2,4,6-Trinitrotoluene	8.1 J	10 / 10	0.35		0.1	0.21	0.31	0.41	0.081	0.22	0.45	J	0.45	0.081	0.22	0.45		0.97	0.42	
2,4-Dinitrotoluene	0.12 J	2 / 10	0.12	J	0.1	0.21	0.27	<	0.093	0.22	0.45	U	<	0.094	0.22	0.45	U	<	0.42	U
2,6-Dinitrotoluene	0.14 J	1 / 10	<	U	0.1	0.21	0.27	<	0.072	0.22	0.22	U	<	0.072	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	2.4 J	9 / 10	<	U	0.062	0.21	0.31	0.82	0.057	0.13	0.22		0.46	0.057	0.13	0.22	J	0.39	0.21	J
2-Nitrotoluene	-	0 / 10	<	U	0.18	0.41	1	<	0.095	0.22	0.45	U	<	0.096	0.22	0.45	U	<	0.42	U
3-Nitrotoluene	-	0 / 10	<	U	0.12	0.41	1	<	0.093	0.22	0.45	U	<	0.094	0.22	0.45	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	3.6 J	10 / 10	1.8		0.1	0.21	0.31	1.6	0.064	0.13	0.22	J	0.69	0.065	0.13	0.22	J	0.44	0.21	J
4-Nitrotoluene	-	0 / 10	<	U	0.18	0.41	1	<	0.22	0.45	1.1	U	<	0.22	0.45	1.1	U	<	1	U
HMX	39 J	9 / 10	7.6		0.074	0.21	0.31	5.9	0.098	0.22	0.45		0.32	0.098	0.22	0.45	J	<	0.42	U
MNX	1.6 J	7 / 10	1.5		0.058	0.21	1	1.3	0.4		2.2	J	<	0.40	0.40	2.2	U	<	2.1	U
Nitrobenzene	-	0 / 10	<	U	0.1	0.21	0.31	<	0.1	0.22	0.45	U	<	0.10	0.22	0.45	U	<	0.42	U
RDX	78.2 J	10 / 10	54		0.37	1	1.5	32	0.29	0.67	1.1		1.8	0.059	0.13	0.22		0.45	0.21	J
Tetryl	-	0 / 10	<	U	0.1	0.21	0.31	<	0.088	0.22	0.27	U	<	0.089	0.22	0.27	U	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-59
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096 -EXPLOSIVES

FIELD ID			G0096			G0096		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/14/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	60.3 J	9 / 10	17.1	0.8	J	60.3	0.8	J
1,3-Dinitrobenzene	5 J	1 / 10	<	0.8	U	<	0.8	UJ
2,4,6-Trinitrotoluene	8.1 J	10 / 10	4.7	0.8	J	8.1	0.8	J
2,4-Dinitrotoluene	0.12 J	2 / 10	<	0.8	U	<	0.8	UJ
2,6-Dinitrotoluene	0.14 J	1 / 10	<	0.8	U	<	0.8	UJ
2-Amino-4,6-dinitrotoluene	2.4 J	9 / 10	1.5	0.8	J	2.4	0.8	J
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
4-Amino-2,6-dinitrotoluene	3.6 J	10 / 10	3	1.4	J	3.6	1.4	J
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
HMX	39 J	9 / 10	3	0.8	J	21	0.8	J
MNX	1.6 J	7 / 10	1.3	0.8	J	1.4	0.8	J
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.8	UJ
RDX	78.2 J	10 / 10	13	0.8	J	78.2	0.8	J
Tetryl	-	0 / 10	<	1.6	U	<	0.8	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-60
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097-EXPLOSIVES

FIELD ID			G0097					G0097					G0097					G0097				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	70.8 J	5 / 10	<	UJ	0.082	0.2	0.2	<	U	1.8	4.4	4.6	1.2		0.22	0.43	1.1	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	0.41	2 / 10	<	UJ	0.036	0.098	0.11	<	U	0.81	2.2	2.4	<	U	0.096	0.22	0.43	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	69.7 J	4 / 10	<	UJ	0.044	0.098	0.11	<	U	0.99	2.2	2.4	<	U	0.17	0.43	0.43	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	0.86	2 / 10	<	UJ	0.027	0.078	0.1	<	U	0.6	1.8	2.2	<	U	0.091	0.22	0.43	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 10	<	UJ	0.039	0.078	0.1	<	U	0.88	1.8	2.2	<	U	0.07	0.22	0.22	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	16.1 J	6 / 10	<	UJ	0.049	0.098	0.11	<	U	1.1	2.2	2.4	<	U	0.055	0.13	0.22	0.67		0.032	0.11	0.16
2-Nitrotoluene	-	0 / 10	<	UJ	0.083	0.2	0.2	<	U	1.9	4.4	4.6	<	UJ	0.092	0.22	0.43	<	U	0.094	0.21	0.52
3-Nitrotoluene	-	0 / 10	<	UJ	0.19	0.39	0.39	<	U	4.3	8.8	8.8	<	UJ	0.21	0.43	0.43	<	U	0.061	0.21	0.52
4-Amino-2,6-dinitrotoluene	24 J	6 / 10	<	UJ	0.056	0.12	0.15	<	U	1.3	2.6	3.3	<	U	0.062	0.13	0.22	0.61		0.053	0.11	0.16
4-Nitrotoluene	-	0 / 10	<	UJ	0.098	0.39	0.4	<	U	2.2	8.8	9	<	UJ	0.22	0.43	1.1	<	U	0.094	0.21	0.52
HMX	13.8 J	6 / 10	<	UJ	0.086	0.2	0.2	<	U	1.9	4.4	4.6	<	U	0.095	0.22	0.43	1.8		0.03	0.11	0.16
MNX	4.5 J	4 / 10	4.1	J	0.15	0.39	2	<	U	3.4	8.8	44	<	U	0.17	0.43	2.2	<	U	0.038	0.11	0.52
Nitrobenzene	0.45 J	1 / 10	<	UJ	0.089	0.2	0.2	<	U	2	4.4	4.6	<	U	0.098	0.22	0.43	<	U	0.053	0.11	0.16
RDX	26.7	6 / 10	0.71	J	0.05	0.2	0.2	<	U	1.1	4.4	4.6	<	U	0.17	0.43	0.43	<	U	0.038	0.11	0.16
Tetryl	0.87 J	1 / 10	<	UJ	0.031	0.098	0.11	<	U	0.7	2.2	2.4	0.87	J	0.086	0.22	0.26	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-60
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097-EXPLOSIVES

FIELD ID			G0097					G0097					G0097					G0097		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/8/2016					8/17/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	70.8 J	5 / 10	1.1		0.032	0.1	0.16	<	0.46	0.91	2.3	U	<	0.22	0.44	1.1	U	35	1	
1,3-Dinitrobenzene	0.41	2 / 10	0.41		0.052	0.1	0.16	0.29	0.2	0.46	0.91	J	<	0.099	0.22	0.44	U	<	0.42	U
2,4,6-Trinitrotoluene	69.7 J	4 / 10	<	U	0.052	0.1	0.16	1.5	0.16	0.46	0.91		<	0.081	0.22	0.44	U	39	0.42	
2,4-Dinitrotoluene	0.86	2 / 10	0.86		0.052	0.1	0.14	0.73	0.19	0.46	0.91	J	<	0.094	0.22	0.44	U	<	0.42	U
2,6-Dinitrotoluene	-	0 / 10	<	U	0.052	0.1	0.14	<	0.15	0.46	0.46	U	<	0.072	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	16.1 J	6 / 10	12		0.16	0.52	0.78	7.7	0.12	0.27	0.46		<	0.057	0.13	0.22	U	16	0.21	J
2-Nitrotoluene	-	0 / 10	<	U	0.092	0.21	0.52	<	0.19	0.46	0.91	U	<	0.096	0.22	0.44	U	<	0.42	U
3-Nitrotoluene	-	0 / 10	<	U	0.059	0.21	0.52	<	0.19	0.46	0.91	U	<	0.094	0.22	0.44	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	24 J	6 / 10	10		0.052	0.1	0.16	6.8	0.13	0.27	0.46	J	<	0.065	0.13	0.22	U	24	0.21	J
4-Nitrotoluene	-	0 / 10	<	U	0.092	0.21	0.52	<	0.46	0.91	2.3	U	<	0.22	0.44	1.1	U	<	1	U
HMX	13.8 J	6 / 10	5	J	0.19	0.52	0.78	9.9	0.2	0.46	0.91		<	0.098	0.22	0.44	U	3.9	0.42	J
MNX	4.5 J	4 / 10	0.47	J	0.029	0.1	0.52	<	0.82	0.82	4.6	U	<	0.40	0.40	2.2	U	<	2.1	U
Nitrobenzene	0.45 J	1 / 10	<	U	0.052	0.1	0.16	0.45	0.21	0.46	0.91	J	<	0.10	0.22	0.44	U	<	0.42	U
RDX	26.7	6 / 10	1.9		0.038	0.1	0.16	0.75	0.12	0.27	0.46	J	<	0.059	0.13	0.22	U	22	0.21	J
Tetryl	0.87 J	1 / 10	<	U	0.052	0.1	0.16	<	0.18	0.46	0.55	U	<	0.089	0.22	0.27	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-60
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097-EXPLOSIVES

FIELD ID			G0097			G0097		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/14/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	70.8 J	5 / 10	70.8	0.8	J	9.1	0.8	
1,3-Dinitrobenzene	0.41	2 / 10	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	69.7 J	4 / 10	69.7	0.8	J	31.3	0.8	
2,4-Dinitrotoluene	0.86	2 / 10	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	16.1 J	6 / 10	16.1	0.8	J	11	0.8	
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	24 J	6 / 10	22.9	1.4	J	22.4	1.4	
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
HMX	13.8 J	6 / 10	13.8	0.8	J	5.2	0.8	
MNX	4.5 J	4 / 10	4.5	0.8	J	0.64	0.8	J
Nitrobenzene	0.45 J	1 / 10	<	0.8	U	<	0.8	U
RDX	26.7	6 / 10	21.4	0.8	J	26.7	0.8	
Tetryl	0.87 J	1 / 10	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-61
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098-EXPLOSIVES

FIELD ID			G0098					G0098					G0098					G0098				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.97	1 / 10	<	U	0.08	0.19	0.2	<	U	0.091	0.22	0.23	<	U	0.2	0.4	1	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 10	<	U	0.035	0.095	0.1	<	U	0.04	0.11	0.12	<	U	0.088	0.2	0.4	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	25.4	2 / 10	<	U	0.043	0.095	0.1	<	U	0.049	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 10	<	U	0.026	0.076	0.1	<	U	0.03	0.087	0.11	<	U	0.084	0.2	0.4	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	1.6 J	3 / 10	<	U	0.038	0.076	0.1	<	U	0.043	0.087	0.11	<	U	0.064	0.2	0.2	0.74	J	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	15.7	2 / 10	<	U	0.048	0.095	0.1	<	U	0.055	0.11	0.12	<	U	0.051	0.12	0.2	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 10	<	UJ	0.082	0.19	0.2	<	U	0.093	0.22	0.23	<	UJ	0.085	0.2	0.4	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 10	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.19	0.4	0.4	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	75.2	2 / 10	<	U	0.055	0.11	0.14	<	U	0.062	0.13	0.16	<	U	0.058	0.12	0.2	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 10	<	UJ	0.095	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.4	1	<	U	0.092	0.21	0.52
HMX	95.6 J	6 / 10	<	U	0.084	0.19	0.2	<	U	0.095	0.22	0.23	1.6		0.087	0.2	0.4	0.6	J	0.029	0.1	0.16
MNX	14.9	3 / 10	<	U	0.15	0.38	1.9	<	U	0.17	0.43	2.2	<	U	0.15	0.4	2	<	U	0.038	0.1	0.52
Nitrobenzene	0.52	1 / 10	0.52		0.087	0.19	0.2	<	U	0.099	0.22	0.23	<	U	0.091	0.2	0.4	<	U	0.052	0.1	0.16
RDX	302	5 / 10	<	U	0.049	0.19	0.2	0.89	J	0.056	0.22	0.23	<	U	0.16	0.4	0.4	<	U	0.038	0.1	0.16
Tetryl	-	0 / 10	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12	<	U	0.079	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-61
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098-EXPLOSIVES

FIELD ID			G0098					G0098					G0098					G0098		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/15/2016					8/13/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	Qual	DL	LOD	LOQ	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.97	1 / 10	<	U	0.033	0.11	0.16	<	0.23	0.46	1.1	U	<	0.43	0.22	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 10	<	U	0.053	0.11	0.16	<	0.1	0.23	0.46	U	<	0.22	0.095	0.43	U	<	0.42	U
2,4,6-Trinitrotoluene	25.4	2 / 10	0.14	J	0.053	0.11	0.16	<	0.083	0.23	0.46	U	<	0.22	0.078	0.43	U	<	0.42	U
2,4-Dinitrotoluene	-	0 / 10	<	U	0.053	0.11	0.14	<	0.096	0.23	0.46	U	<	0.22	0.090	0.43	U	<	0.42	U
2,6-Dinitrotoluene	1.6 J	3 / 10	0.72	J	0.053	0.11	0.14	<	0.074	0.23	0.23	U	<	0.22	0.069	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	15.7	2 / 10	<	U	0.032	0.11	0.16	<	0.058	0.14	0.23	U	<	0.13	0.055	0.22	U	<	0.21	J
2-Nitrotoluene	-	0 / 10	<	U	0.093	0.21	0.53	<	0.098	0.23	0.46	U	<	0.22	0.092	0.43	U	<	0.42	U
3-Nitrotoluene	-	0 / 10	<	U	0.06	0.21	0.53	<	0.095	0.23	0.46	U	<	0.22	0.090	0.43	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	75.2	2 / 10	<	U	0.053	0.11	0.16	<	0.066	0.14	0.23	U	<	0.13	0.062	0.22	U	<	0.21	J
4-Nitrotoluene	-	0 / 10	<	U	0.093	0.21	0.53	<	0.23	0.46	1.1	U	<	0.43	0.22	1.1	U	<	1	U
HMX	95.6 J	6 / 10	2.4	J	0.038	0.11	0.16	<	0.1	0.23	0.46	U	9.8	0.22	0.094	0.43	J	<	0.42	J
MNX	14.9	3 / 10	<	U	0.03	0.11	0.53	<	0.41	0.41	2.3	U	0.44	0.39	0.39	2.2	J	<	2.1	J
Nitrobenzene	0.52	1 / 10	<	U	0.053	0.11	0.16	<	0.1	0.23	0.46	U	<	0.22	0.098	0.43	U	<	0.42	U
RDX	302	5 / 10	1.3	J	0.038	0.11	0.16	<	0.06	0.14	0.23	U	3.7	0.13	0.056	0.22	J	<	0.21	J
Tetryl	-	0 / 10	<	U	0.053	0.11	0.16	<	0.091	0.23	0.27	U	<	0.22	0.085	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-61
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098-EXPLOSIVES

FIELD ID			G0098			G0098		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/14/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	0.97	1 / 10	<	0.8	U	0.97	0.8	
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	25.4	2 / 10	<	0.8	U	25.4	0.8	
2,4-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	1.6 J	3 / 10	<	0.8	U	1.6	0.8	J
2-Amino-4,6-dinitrotoluene	15.7	2 / 10	1.4	0.8	J	15.7	0.8	
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	75.2	2 / 10	2.6	1.4	J	75.2	7.2	
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	U
HMX	95.6 J	6 / 10	24.7	0.8	J	95.6	4	J
MNX	14.9	3 / 10	3.7	0.8	J	14.9	0.8	
Nitrobenzene	0.52	1 / 10	<	0.8	U	<	0.8	U
RDX	302	5 / 10	32.2	0.8	J	302	4	
Tetryl	-	0 / 10	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-62
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099-EXPLOSIVES

FIELD ID			G0099					G0099					G0099					G0099				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/15/2020					6/8/2019					3/23/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.033 J	1 / 10	<	U	0.083	0.2	0.21	<	U	0.089	0.21	0.22	<	U	0.2	0.39	0.98	0.033	J	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 10	<	U	0.036	0.098	0.11	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	17.6 J	1 / 10	<	U	0.044	0.098	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.05	0.1	0.15
2,4-Dinitrotoluene	-	0 / 10	<	U	0.027	0.079	0.1	<	U	0.029	0.085	0.11	<	U	0.082	0.2	0.39	<	U	0.05	0.1	0.13
2,6-Dinitrotoluene	0.35 J	1 / 10	<	U	0.039	0.079	0.1	<	U	0.043	0.085	0.11	<	U	0.063	0.2	0.2	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.78 J	3 / 10	<	U	0.05	0.098	0.11	0.15	J	0.054	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 10	<	UJ	0.084	0.2	0.21	<	U	0.091	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.089	0.2	0.5
3-Nitrotoluene	-	0 / 10	<	UJ	0.19	0.39	0.39	<	U	0.21	0.42	0.42	<	UJ	0.19	0.39	0.39	<	U	0.058	0.2	0.5
4-Amino-2,6-dinitrotoluene	2.1 J	2 / 10	<	U	0.057	0.12	0.15	<	U	0.061	0.13	0.16	0.28	J	0.056	0.12	0.2	<	U	0.05	0.1	0.15
4-Nitrotoluene	-	0 / 10	<	UJ	0.098	0.39	0.4	<	U	0.11	0.42	0.44	<	UJ	0.2	0.39	0.98	<	U	0.089	0.2	0.5
HMX	27 J	5 / 10	1.3		0.086	0.2	0.21	<	U	0.093	0.21	0.22	0.51		0.086	0.2	0.39	1.2	J	0.028	0.1	0.15
MNX	0.98 J	3 / 10	0.98	J	0.15	0.39	2	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	0.48	J	0.036	0.1	0.5
Nitrobenzene	-	0 / 10	<	U	0.09	0.2	0.21	<	U	0.097	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.05	0.1	0.15
RDX	183 J	9 / 10	97		0.51	2	2.1	1.3	J	0.055	0.21	0.22	2.2		0.15	0.39	0.39	1.7		0.036	0.1	0.15
Tetryl	-	0 / 10	<	U	0.031	0.098	0.11	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.23	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-62
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099-EXPLOSIVES

FIELD ID			G0099					G0099					G0099					G0099		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/11/2016					8/13/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.033 J	1 / 10	<	UJ	0.032	0.1	0.16	<	0.22	0.43	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 10	<	UJ	0.052	0.1	0.16	<	0.096	0.22	0.43	U	<	0.095	0.21	0.43	U	<	0.42	U
2,4,6-Trinitrotoluene	17.6 J	1 / 10	<	UJ	0.052	0.1	0.16	<	0.078	0.22	0.43	U	<	0.077	0.21	0.43	U	<	0.42	U
2,4-Dinitrotoluene	-	0 / 10	<	UJ	0.052	0.1	0.13	<	0.09	0.22	0.43	U	<	0.089	0.21	0.43	U	<	0.42	U
2,6-Dinitrotoluene	0.35 J	1 / 10	0.35	J	0.052	0.1	0.13	<	0.07	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	0.78 J	3 / 10	<	UJ	0.031	0.1	0.16	0.22	0.055	0.13	0.22	J	<	0.054	0.13	0.21	U	<	0.21	U
2-Nitrotoluene	-	0 / 10	<	UJ	0.091	0.21	0.52	<	0.092	0.22	0.43	U	<	0.091	0.21	0.43	U	<	0.42	U
3-Nitrotoluene	-	0 / 10	<	UJ	0.059	0.21	0.52	<	0.09	0.22	0.43	U	<	0.089	0.21	0.43	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	2.1 J	2 / 10	<	UJ	0.052	0.1	0.16	<	0.062	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.21	U
4-Nitrotoluene	-	0 / 10	<	UJ	0.091	0.21	0.52	<	0.22	0.43	1.1	U	<	0.21	0.43	1.1	U	<	1	U
HMX	27 J	5 / 10	3.4	J	0.037	0.1	0.16	<	0.094	0.22	0.43	U	<	0.093	0.21	0.43	U	<	0.42	U
MNX	0.98 J	3 / 10	0.21	J	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2.1	U
Nitrobenzene	-	0 / 10	<	UJ	0.052	0.1	0.16	<	0.098	0.22	0.43	U	<	0.10	0.21	0.43	U	<	0.42	U
RDX	183 J	9 / 10	1.3	J	0.037	0.1	0.16	3.1	0.056	0.13	0.22		0.21	0.056	0.13	0.21	J	<	0.21	U
Tetryl	-	0 / 10	<	UJ	0.052	0.1	0.16	<	0.085	0.22	0.26	U	<	0.085	0.21	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-62
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099-EXPLOSIVES

FIELD ID			G0099			G0099		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/21/2013			3/14/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	0.033 J	1 / 10	<	0.8	U	<	0.8	UJ
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.8	UJ
2,4,6-Trinitrotoluene	17.6 J	1 / 10	<	0.8	U	17.6	0.8	J
2,4-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
2,6-Dinitrotoluene	0.35 J	1 / 10	<	0.8	U	<	0.8	UJ
2-Amino-4,6-dinitrotoluene	0.78 J	3 / 10	<	0.8	U	0.78	0.8	J
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
4-Amino-2,6-dinitrotoluene	2.1 J	2 / 10	<	1.4	U	2.1	1.4	J
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
HMX	27 J	5 / 10	<	0.8	U	27	0.8	J
MNX	0.98 J	3 / 10	<	0.8	U	<	0.8	UJ
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.8	UJ
RDX	183 J	9 / 10	2.2	0.8	J	183	8	J
Tetryl	-	0 / 10	<	1.6	U	<	0.8	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-63
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100-EXPLOSIVES

FIELD ID			G0100					G0100					G0100					G0100				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/12/2020					6/7/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	121 J	7 / 10	<	U	0.082	0.2	0.21	1.5		0.089	0.21	0.22	<	U	0.2	0.4	1	0.37	J	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 10	<	U	0.036	0.098	0.11	<	U	0.039	0.11	0.12	<	U	0.089	0.2	0.4	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	35.9 J	7 / 10	<	U	0.044	0.098	0.11	0.39	J	0.048	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	0.33 J	2 / 10	<	U	0.027	0.078	0.1	<	U	0.029	0.085	0.11	<	U	0.084	0.2	0.4	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	7.4 J	1 / 10	7.4	J	0.039	0.078	0.1	<	U	0.042	0.085	0.11	<	U	0.064	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	10.7	7 / 10	<	U	0.05	0.098	0.11	0.83		0.054	0.11	0.12	<	U	0.051	0.12	0.2	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 10	<	UJ	0.084	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.085	0.2	0.4	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 10	<	UJ	0.19	0.39	0.39	<	U	0.21	0.42	0.42	<	UJ	0.19	0.4	0.4	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	18.3 J	5 / 10	<	U	0.057	0.12	0.15	<	U	0.061	0.13	0.16	<	UJ	0.058	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 10	<	UJ	0.098	0.39	0.4	<	U	0.11	0.42	0.43	<	UJ	0.2	0.4	1	<	U	0.09	0.2	0.51
HMX	12.1	4 / 10	<	U	0.086	0.2	0.21	<	U	0.093	0.21	0.22	<	U	0.087	0.2	0.4	<	UJ	0.029	1	1.5
MNX	4.5 J	4 / 10	<	U	0.15	0.39	2	<	U	0.16	0.42	2.1	<	U	0.15	0.4	2	<	U	0.37	0.1	0.51
Nitrobenzene	-	0 / 10	<	U	0.089	0.2	0.21	<	U	0.096	0.21	0.22	<	U	0.091	0.2	0.4	<	U	0.051	0.1	0.15
RDX	7.2 J	5 / 10	<	U	0.05	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.16	0.4	0.4	<	U	0.037	0.1	0.15
Tetryl	-	0 / 10	<	U	0.031	0.098	0.11	<	U	0.034	0.11	0.12	<	U	0.079	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-63
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100-EXPLOSIVES

FIELD ID			G0100					G0100					G0100					G0100		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2017					8/4/2016					8/7/2015					8/11/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	121 J	7 / 10	2.1		0.033	0.11	0.16	2.8	0.22	0.44	1.1		1.5	0.23	0.5	1.1		<	1.1	U
1,3-Dinitrobenzene	-	0 / 10	<	U	0.053	0.11	0.16	<	0.097	0.22	0.44	U	<	0.10	0.23	0.46	U	<	0.42	U
2,4,6-Trinitrotoluene	35.9 J	7 / 10	0.32	J	0.053	0.11	0.16	1.1	0.079	0.22	0.44		0.82	0.082	0.23	0.46	J	0.2	0.42	J
2,4-Dinitrotoluene	0.33 J	2 / 10	<	U	0.053	0.11	0.14	0.17	0.092	0.22	0.44	J	<	0.095	0.23	0.46	UJ	0.33	0.42	J
2,6-Dinitrotoluene	7.4 J	1 / 10	<	U	0.053	0.11	0.14	<	0.07	0.22	0.22	U	<	0.073	0.23	0.23	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	10.7	7 / 10	0.8		0.032	0.11	0.16	2.3	0.055	0.13	0.22		3.6	0.058	0.14	0.23	J	2.2	0.21	J
2-Nitrotoluene	-	0 / 10	<	U	0.094	0.21	0.53	<	0.093	0.22	0.44	U	<	0.097	0.23	0.46	UJ	<	0.42	U
3-Nitrotoluene	-	0 / 10	<	U	0.061	0.21	0.53	<	0.091	0.22	0.44	U	<	0.095	0.23	0.46	UJ	<	0.42	U
4-Amino-2,6-dinitrotoluene	18.3 J	5 / 10	0.33		0.053	0.11	0.16	<	0.063	0.13	0.22	U	2.4	0.066	0.14	0.23	J	2.3	0.21	J
4-Nitrotoluene	-	0 / 10	<	U	0.094	0.21	0.53	<	0.22	0.44	1.1	U	<	0.23	0.46	1.1	UJ	<	1.1	U
HMX	12.1	4 / 10	<	U	0.038	0.11	0.16	1.2	0.096	0.22	0.44	J	1.6	0.10	0.23	0.46	J	<	0.42	U
MNX	4.5 J	4 / 10	<	U	0.03	0.11	0.53	4.5	0.39		2.2	J	0.51	0.41	0.41	2.3	J	1	2.1	J
Nitrobenzene	-	0 / 10	<	U	0.053	0.11	0.16	<	0.099	0.22	0.44	U	<	0.10	0.23	0.46	U	<	0.42	U
RDX	7.2 J	5 / 10	0.93		0.038	0.11	0.16	<	0.057	0.13	0.22	U	0.65	0.060	0.14	0.23	J	0.24	0.21	J
Tetryl	-	0 / 10	<	U	0.053	0.11	0.16	<	0.087	0.22	0.26	U	<	0.090	0.23	0.27	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-63
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100-EXPLOSIVES

FIELD ID			G0100			G0100		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/15/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	121 J	7 / 10	65.6	0.8		121	8	J
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.8	UJ
2,4,6-Trinitrotoluene	35.9 J	7 / 10	23.6	0.8		35.9	8	J
2,4-Dinitrotoluene	0.33 J	2 / 10	<	0.8	U	<	0.8	UJ
2,6-Dinitrotoluene	7.4 J	1 / 10	<	0.8	U	<	0.8	UJ
2-Amino-4,6-dinitrotoluene	10.7	7 / 10	10.7	0.8		8.8	0.8	J
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
4-Amino-2,6-dinitrotoluene	18.3 J	5 / 10	12.4	1.4		18.3	1.4	J
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
HMX	12.1	4 / 10	12.1	0.8		2.7	0.8	J
MNX	4.5 J	4 / 10	<	0.8	U	0.5	0.8	J
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.8	UJ
RDX	7.2 J	5 / 10	3.2	0.8		7.2	0.8	J
Tetryl	-	0 / 10	<	1.6	U	<	0.8	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-64
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101-EXPLOSIVES

FIELD ID			G0101					G0101					G0101					G0101				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/12/2020					6/7/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	28 J	6 / 10	<	U	0.081	0.19	0.2	<	U	0.095	0.23	0.24	<	U	0.2	0.39	0.99	0.24	J	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 10	<	U	0.036	0.097	0.11	<	U	0.042	0.11	0.12	<	U	0.087	0.2	0.39	<	UJ	0.052	0.1	0.15
2,4,6-Trinitrotoluene	42.2 J	4 / 10	<	U	0.044	0.097	0.11	<	U	0.051	0.11	0.12	<	U	0.16	0.39	0.39	<	UJ	0.052	0.1	0.15
2,4-Dinitrotoluene	0.22 J	1 / 10	<	U	0.027	0.077	0.1	<	U	0.031	0.091	0.11	<	U	0.083	0.2	0.39	<	UJ	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 10	<	U	0.039	0.077	0.1	<	U	0.045	0.091	0.11	<	U	0.064	0.2	0.2	<	UJ	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	15.1 J	6 / 10	<	U	0.049	0.097	0.11	<	U	0.057	0.11	0.12	<	U	0.05	0.12	0.2	0.4	J	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 10	<	UJ	0.083	0.19	0.2	<	U	0.097	0.23	0.24	<	UJ	0.084	0.2	0.39	<	UJ	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 10	<	UJ	0.19	0.39	0.39	<	U	0.22	0.45	0.45	<	U	0.19	0.39	0.39	<	UJ	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	16.2 J	6 / 10	<	U	0.056	0.12	0.15	<	U	0.065	0.14	0.17	<	U	0.057	0.12	0.2	0.81	J	0.052	0.1	0.15
4-Nitrotoluene	-	0 / 10	<	UJ	0.097	0.39	0.4	<	U	0.11	0.45	0.46	<	U	0.2	0.39	0.99	<	UJ	0.091	0.21	0.52
HMX	9.3 J	6 / 10	<	U	0.085	0.19	0.2	2.3	J	0.099	0.23	0.24	<	U	0.086	0.2	0.39	2.2	J	0.029	0.1	0.15
MNX	0.66 J	3 / 10	<	U	0.15	0.39	1.9	<	U	0.17	0.45	2.3	<	U	0.15	0.39	2	<	UJ	0.037	0.1	0.52
Nitrobenzene	0.096 J	1 / 10	<	U	0.088	0.19	0.2	<	U	0.1	0.23	0.24	<	U	0.09	0.2	0.39	0.096	J	0.052	0.1	0.15
RDX	7.6 J	6 / 10	<	U	0.05	0.19	0.2	<	U	0.058	0.23	0.24	<	U	0.16	0.39	0.39	1.1	J	0.037	0.1	0.15
Tetryl	-	0 / 10	<	U	0.031	0.097	0.11	<	U	0.036	0.11	0.12	<	U	0.078	0.2	0.24	<	UJ	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-64
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101-EXPLOSIVES

FIELD ID			G0101					G0101					G0101					G0101		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2017					8/4/2016					8/6/2015					8/11/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	28 J	6 / 10	0.16	J	0.032	0.1	0.15	<	0.22	0.44	1.1	U	0.40	0.22	0.45	1.1	J	0.24	1	J
1,3-Dinitrobenzene	-	0 / 10	<	U	0.052	0.1	0.15	<	0.097	0.22	0.44	U	<	0.099	0.22	0.45	U	<	0.42	U
2,4,6-Trinitrotoluene	42.2 J	4 / 10	<	U	0.052	0.1	0.15	<	0.079	0.22	0.44	U	0.26	0.081	0.22	0.45	J	0.23	0.42	J
2,4-Dinitrotoluene	0.22 J	1 / 10	<	U	0.052	0.1	0.13	<	0.091	0.22	0.44	U	<	0.093	0.22	0.45	U	<	0.42	U
2,6-Dinitrotoluene	-	0 / 10	<	U	0.052	0.1	0.13	<	0.07	0.22	0.22	U	<	0.072	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	15.1 J	6 / 10	<	U	0.031	0.1	0.15	0.56	0.055	0.13	0.22		0.88	0.057	0.13	0.22	J	0.13	0.21	J
2-Nitrotoluene	-	0 / 10	<	U	0.091	0.21	0.52	<	0.093	0.22	0.44	U	<	0.095	0.22	0.45	U	<	0.42	U
3-Nitrotoluene	-	0 / 10	<	U	0.059	0.21	0.52	<	0.091	0.22	0.44	U	<	0.093	0.22	0.45	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	16.2 J	6 / 10	0.61		0.052	0.1	0.15	2.6	0.063	0.13	0.22	J	2.2	0.064	0.13	0.22	J	<	0.21	U
4-Nitrotoluene	-	0 / 10	<	U	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.22	0.22	1.1	U	<	1	U
HMX	9.3 J	6 / 10	2.8		0.037	0.1	0.15	3.9	0.096	0.22	0.44	J	1.1	0.098	0.2	0.45	J	<	0.42	U
MNX	0.66 J	3 / 10	0.26	J	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.40	0.40	2.2	U	0.66	2.1	J
Nitrobenzene	0.096 J	1 / 10	<	U	0.052	0.1	0.15	<	0.099	0.22	0.44	U	<	0.10	0.22	0.45	U	<	0.42	U
RDX	7.6 J	6 / 10	1.3		0.037	0.1	0.15	1.6	0.057	0.13	0.22		0.86	0.058	0.13	0.22	J	<	0.21	U
Tetryl	-	0 / 10	<	U	0.052	0.1	0.15	<	0.087	0.22	0.26	U	<	0.088	0.22	0.27	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-64
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101-EXPLOSIVES

FIELD ID			G0101			G0101		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/15/2012		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	28 J	6 / 10	1.9	0.8	J	28	0.8	J
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.8	UJ
2,4,6-Trinitrotoluene	42.2 J	4 / 10	5.6	0.8	J	42.2	0.8	J
2,4-Dinitrotoluene	0.22 J	1 / 10	<	0.8	U	0.22	0.8	J
2,6-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
2-Amino-4,6-dinitrotoluene	15.1 J	6 / 10	7.9	0.8	J	15.1	0.8	J
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
4-Amino-2,6-dinitrotoluene	16.2 J	6 / 10	10.4	1.4	J	16.2	1.4	J
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	0.8	UJ
HMX	9.3 J	6 / 10	<	0.8	U	9.3	0.8	J
MNX	0.66 J	3 / 10	<	0.8	U	0.28	0.8	J
Nitrobenzene	0.096 J	1 / 10	<	0.8	U	<	0.8	UJ
RDX	7.6 J	6 / 10	2.4	0.8	J	7.6	0.8	J
Tetryl	-	0 / 10	<	1.6	U	<	0.8	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-65
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102-EXPLOSIVES

FIELD ID			G0102					G0102					G0102					G0102				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/11/2020					6/5/2019					3/13/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.086	0.21	0.22	<	U	0.093	0.22	0.23	<	U	0.21	0.42	1	<	U	0.032	0.01	0.02
1,3-Dinitrobenzene	-	0 / 9	<	U	0.038	0.1	0.11	<	U	0.041	0.11	0.12	<	U	0.093	0.21	0.42	<	U	0.052	0.01	0.02
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.046	0.1	0.11	<	U	0.05	0.11	0.12	<	U	0.17	0.42	0.42	<	U	0.052	0.01	0.02
2,4-Dinitrotoluene	-	0 / 9	<	U	0.028	0.082	0.1	<	U	0.03	0.088	0.11	<	UJ	0.088	0.21	0.42	<	U	0.052	0.01	0.01
2,6-Dinitrotoluene	-	0 / 9	<	U	0.041	0.082	0.1	<	U	0.044	0.088	0.11	<	UJ	0.067	0.21	0.21	<	U	0.052	0.01	0.01
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	UJ	0.052	0.1	0.11	<	U	0.056	0.11	0.12	<	UJ	0.053	0.13	0.21	<	U	0.031	0.01	0.02
2-Nitrotoluene	-	0 / 9	<	UJ	0.088	0.21	0.22	<	U	0.094	0.22	0.23	<	UJ	0.089	0.21	0.42	<	U	0.092	0.02	0.05
3-Nitrotoluene	-	0 / 9	<	UJ	0.2	0.41	0.41	<	U	0.21	0.44	0.44	<	UJ	0.2	0.42	0.42	<	U	0.06	0.02	0.05
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	UJ	0.059	0.12	0.15	<	UJ	0.064	0.13	0.17	<	UJ	0.06	0.13	0.21	<	U	0.052	0.01	0.02
4-Nitrotoluene	-	0 / 9	<	UJ	0.1	0.41	0.42	<	U	0.11	0.44	0.45	<	UJ	0.21	0.42	1	<	U	0.092	0.02	0.05
HMX	2.2	1 / 9	<	U	0.09	0.21	0.22	2.2		0.096	0.22	0.23	<	U	0.092	0.21	0.42	<	U	0.029	0.01	0.02
MNX	1.2 J	1 / 9	<	U	0.16	0.41	2.1	1.2	J	0.17	0.44	2.2	<	U	0.16	0.42	2.1	<	U	0.038	0.01	0.05
Nitrobenzene	-	0 / 9	<	U	0.093	0.21	0.22	<	U	0.1	0.22	0.23	<	UJ	0.095	0.21	0.42	<	U	0.052	0.01	0.02
RDX	41 J	5 / 9	8.5	J	0.053	0.21	0.22	41	J	0.57	2.2	2.3	1.1		0.17	0.42	0.42	<	U	0.038	0.01	0.02
Tetryl	-	0 / 9	<	U	0.033	0.1	0.11	<	U	0.035	0.11	0.12	<	U	0.083	0.21	0.25	<	U	0.052	0.01	0.02

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-65
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102-EXPLOSIVES

FIELD ID			G0102					G0102					G0102					G0102		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/22/2017					8/12/2016					8/4/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 9	<	U	0.051	0.1	0.15	<	0.098	0.22	0.44	U	<	0.095	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.051	0.1	0.15	<	0.08	0.22	0.44	U	<	0.077	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 9	<	U	0.051	0.1	0.13	<	0.093	0.22	0.44	UJ	<	0.090	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 9	<	U	0.051	0.1	0.13	<	0.072	0.22	0.22	UJ	<	0.069	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	U	0.031	0.1	0.15	<	0.056	0.13	0.22	UJ	<	0.054	0.13	0.21	U	<	0.21	U
2-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.51	<	0.095	0.22	0.44	UJ	<	0.091	0.21	0.43	U	<	0.42	U
3-Nitrotoluene	-	0 / 9	<	U	0.059	0.21	0.51	<	0.093	0.22	0.44	UJ	<	0.089	0.21	0.43	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	U	0.051	0.1	0.15	<	0.064	0.13	0.22	U	<	0.062	0.13	0.21	U	<	0.21	U
4-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.51	<	0.22	0.44	1.1	UJ	<	0.21	0.43	1.1	U	<	1.1	U
HMX	2.2	1 / 9	<	U	0.037	0.1	0.15	<	0.097	0.22	0.44	U	<	0.094	0.21	0.43	U	<	0.42	U
MNX	1.2 J	1 / 9	<	U	0.029	0.1	0.51	<	0.4	0.4	2.2	U	<	0.38	0.38	2.1	U	<	2.2	U
Nitrobenzene	-	0 / 9	<	U	0.051	0.1	0.15	<	0.1	0.22	0.44	U	<	0.097	0.21	0.43	U	<	0.41	U
RDX	41 J	5 / 9	<	U	0.037	0.1	0.15	0.47	0.058	0.13	0.22		0.87	0.056	0.13	0.21		<	0.21	U
Tetryl	-	0 / 9	<	U	0.051	0.1	0.15	<	0.088	0.22	0.27	U	<	0.085	0.21	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-65
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102-EXPLOSIVES

FIELD ID			G0102		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	2.2	1 / 9	<	0.8	U
MNX	1.2 J	1 / 9	<	0.8	U
Nitrobenzene	-	0 / 9	<	0.8	U
RDX	41 J	5 / 9	<	0.8	U
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-66
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103-EXPLOSIVES

FIELD ID			G0103					G0103					G0103					G0103				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/11/2020					6/5/2019					3/13/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	UJ	0.085	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.22	0.43	1.1	<	UJ	0.032	0.01	0.02
1,3-Dinitrobenzene	-	0 / 9	<	UJ	0.037	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.096	0.22	0.43	<	UJ	0.052	0.01	0.02
2,4,6-Trinitrotoluene	-	0 / 9	<	UJ	0.045	0.1	0.11	<	U	0.047	0.1	0.11	<	U	0.17	0.43	0.43	<	UJ	0.052	0.01	0.02
2,4-Dinitrotoluene	-	0 / 9	<	UJ	0.028	0.081	0.1	<	U	0.029	0.083	0.1	<	U	0.091	0.22	0.43	<	UJ	0.052	0.01	0.01
2,6-Dinitrotoluene	-	0 / 9	<	UJ	0.04	0.081	0.1	<	U	0.042	0.083	0.1	<	U	0.07	0.22	0.22	<	UJ	0.052	0.01	0.01
2-Amino-4,6-dinitrotoluene	5.8 J	3 / 9	<	UJ	0.051	0.1	0.11	5.8	J	0.053	0.1	0.11	<	U	0.055	0.13	0.22	<	UJ	0.031	0.01	0.02
2-Nitrotoluene	-	0 / 9	<	UJ	0.086	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.093	0.22	0.43	<	UJ	0.092	0.02	0.05
3-Nitrotoluene	3.7 J	2 / 9	<	UJ	0.2	0.4	0.4	<	U	0.2	0.42	0.42	3.7	J	0.21	0.43	0.43	<	UJ	0.06	0.02	0.05
4-Amino-2,6-dinitrotoluene	0.6 J	2 / 9	<	UJ	0.058	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.063	0.13	0.22	0.19	J	0.052	0.01	0.02
4-Nitrotoluene	-	0 / 9	<	UJ	0.1	0.4	0.41	<	U	0.1	0.42	0.43	<	U	0.22	0.43	1.1	<	UJ	0.092	0.02	0.05
HMX	18.3	1 / 9	<	UJ	0.088	0.2	0.21	<	U	0.091	0.21	0.22	<	U	0.095	0.22	0.43	<	UJ	0.029	0.01	0.02
MNX	7.2	1 / 9	<	UJ	0.16	0.4	2	<	U	0.16	0.42	2.1	<	U	0.17	0.43	2.2	<	UJ	0.038	0.01	0.05
Nitrobenzene	0.6	1 / 9	<	UJ	0.092	0.2	0.21	<	U	0.095	0.21	0.22	0.6		0.099	0.22	0.43	<	UJ	0.052	0.01	0.02
RDX	1.7	1 / 9	<	UJ	0.052	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.17	0.43	0.43	<	UJ	0.038	0.01	0.02
Tetryl	-	0 / 9	<	UJ	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.086	0.22	0.26	<	UJ	0.052	0.01	0.02

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-66
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103-EXPLOSIVES

FIELD ID			G0103					G0103					G0103					G0103		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/23/2017					8/8/2016					8/4/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 9	<	UJ	0.033	0.11	0.16	<	0.21	0.42	1.1	U	<	0.46	0.91	2.3	UJ	<	1	U
1,3-Dinitrobenzene	-	0 / 9	<	UJ	0.054	0.11	0.16	<	0.094	0.21	0.42	U	<	0.20	0.46	0.91	UJ	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 9	<	UJ	0.054	0.11	0.16	<	0.077	0.21	0.42	U	<	0.17	0.46	0.91	UJ	<	0.41	U
2,4-Dinitrotoluene	-	0 / 9	<	UJ	0.054	0.11	0.14	<	0.089	0.21	0.42	U	<	0.19	0.46	0.91	UJ	<	0.41	U
2,6-Dinitrotoluene	-	0 / 9	<	UJ	0.054	0.11	0.14	<	0.068	0.21	0.21	U	<	0.15	0.46	0.46	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	5.8 J	3 / 9	0.12	J	0.032	0.11	0.16	<	0.054	0.13	0.21	U	<	0.12	0.27	0.46	UJ	0.2	0.21	J
2-Nitrotoluene	-	0 / 9	<	UJ	0.094	0.21	0.54	<	0.09	0.21	0.42	U	<	0.20	0.46	0.91	UJ	<	0.42	U
3-Nitrotoluene	3.7 J	2 / 9	<	UJ	0.061	0.21	0.54	<	0.088	0.21	0.42	U	<	0.19	0.46	0.91	UJ	0.57	0.42	J
4-Amino-2,6-dinitrotoluene	0.6 J	2 / 9	0.6	J	0.054	0.11	0.16	<	0.061	0.13	0.21	U	<	0.13	0.27	0.46	UJ	<	0.21	U
4-Nitrotoluene	-	0 / 9	<	UJ	0.094	0.21	0.54	<	0.21	0.42	1.1	U	<	0.46	0.91	2.3	UJ	<	1.1	U
HMX	18.3	1 / 9	<	UJ	0.039	0.11	0.16	<	0.093	0.21	0.42	U	<	0.20	0.46	0.91	UJ	<	0.42	U
MNX	7.2	1 / 9	<	UJ	0.03	0.11	0.54	<	0.38	0.38	2.1	U	<	0.82	0.82	2.1	UJ	7.2	2.2	
Nitrobenzene	0.6	1 / 9	<	UJ	0.054	0.11	0.16	<	0.096	0.21	0.42	U	<	0.21	0.46	0.91	UJ	<	0.41	U
RDX	1.7	1 / 9	<	UJ	0.039	0.11	0.16	<	0.055	0.13	0.21	U	<	0.12	0.27	0.46	UJ	<	0.21	U
Tetryl	-	0 / 9	<	UJ	0.054	0.11	0.16	<	0.084	0.21	0.25	U	<	0.18	0.46	0.55	UJ	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-66
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103-EXPLOSIVES

FIELD ID			G0103		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/21/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	5.8 J	3 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	3.7 J	2 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	0.6 J	2 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	18.3	1 / 9	18.3	0.8	
MNX	7.2	1 / 9	<	0.8	U
Nitrobenzene	0.6	1 / 9	<	0.8	U
RDX	1.7	1 / 9	1.7	0.8	
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-67
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104-EXPLOSIVES

FIELD ID			G0104					G0104					G0104					G0104				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/12/2020					6/5/2019					3/13/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.087	0.21	0.22	<	U	0.089	0.21	0.22	<	U	0.21	0.42	1	<	UJ	0.033	0.01	0.02
1,3-Dinitrobenzene	-	0 / 9	<	U	0.038	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.093	0.21	0.42	<	UJ	0.053	0.01	0.02
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.046	0.1	0.11	<	U	0.048	0.11	0.12	<	U	0.17	0.42	0.42	<	UJ	0.053	0.01	0.02
2,4-Dinitrotoluene	-	0 / 9	<	U	0.028	0.083	0.1	<	U	0.029	0.085	0.11	<	U	0.088	0.21	0.42	<	UJ	0.053	0.01	0.01
2,6-Dinitrotoluene	0.16 J	1 / 9	<	U	0.041	0.083	0.1	<	U	0.043	0.085	0.11	<	U	0.068	0.21	0.21	0.16	J	0.053	0.01	0.01
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	UJ	0.052	0.1	0.11	<	U	0.054	0.11	0.12	<	U	0.053	0.13	0.21	<	UJ	0.032	0.01	0.02
2-Nitrotoluene	0.15 J	1 / 9	<	UJ	0.088	0.21	0.22	<	U	0.091	0.21	0.22	<	UJ	0.09	0.21	0.42	<	UJ	0.093	0.02	0.05
3-Nitrotoluene	-	0 / 9	<	UJ	0.2	0.41	0.41	<	U	0.21	0.42	0.42	<	U	0.2	0.42	0.42	<	UJ	0.06	0.02	0.05
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	UJ	0.06	0.12	0.15	<	U	0.061	0.13	0.16	<	U	0.061	0.13	0.21	<	UJ	0.053	0.01	0.02
4-Nitrotoluene	-	0 / 9	<	UJ	0.1	0.41	0.42	<	U	0.11	0.42	0.44	<	U	0.21	0.42	1	<	UJ	0.093	0.02	0.05
HMX	13.3	2 / 9	<	U	0.09	0.21	0.22	<	U	0.093	0.21	0.22	<	U	0.092	0.21	0.42	<	UJ	0.03	0.01	0.02
MNX	14.1	2 / 9	<	U	0.16	0.41	2.1	<	U	0.16	0.42	2.1	<	U	0.16	0.42	2.1	<	UJ	0.038	0.01	0.05
Nitrobenzene	0.99 J	1 / 9	<	U	0.094	0.21	0.22	<	U	0.097	0.21	0.22	<	U	0.095	0.21	0.42	<	UJ	0.053	0.01	0.02
RDX	45.9	1 / 9	<	U	0.053	0.21	0.22	<	U	0.055	0.21	0.22	<	U	0.17	0.42	0.42	<	UJ	0.038	0.01	0.02
Tetryl	-	0 / 9	<	U	0.033	0.1	0.11	<	U	0.034	0.11	0.12	<	U	0.083	0.21	0.25	<	UJ	0.053	0.01	0.02

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-67
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104-EXPLOSIVES

FIELD ID			G0104					G0104					G0104					G0104				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	3/23/2017					8/12/2016					8/5/2015					8/18/2014				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual		
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.033	0.11	0.16	<	0.22	0.44	1.1	U	<	0.21	0.42	1.0	U	<	1	UJ		
1,3-Dinitrobenzene	-	0 / 9	<	U	0.054	0.11	0.16	<	0.097	0.22	0.44	U	<	0.093	0.21	0.42	U	<	0.41	UJ		
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.054	0.11	0.16	<	0.079	0.22	0.44	U	<	0.076	0.21	0.42	U	<	0.41	UJ		
2,4-Dinitrotoluene	-	0 / 9	<	U	0.054	0.11	0.14	<	0.092	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.41	UJ		
2,6-Dinitrotoluene	0.16 J	1 / 9	<	U	0.054	0.11	0.14	<	0.071	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.21	UJ		
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	U	0.032	0.11	0.16	<	0.055	0.13	0.22	U	<	0.053	0.13	0.21	U	<	0.21	UJ		
2-Nitrotoluene	0.15 J	1 / 9	<	U	0.095	0.22	0.54	0.15	0.094	0.22	0.44	J	<	0.090	0.21	0.42	U	<	0.41	UJ		
3-Nitrotoluene	-	0 / 9	<	U	0.061	0.22	0.54	<	0.091	0.22	0.44	U	<	0.088	0.21	0.42	U	<	0.41	UJ		
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	U	0.054	0.11	0.16	<	0.063	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.21	UJ		
4-Nitrotoluene	-	0 / 9	<	U	0.095	0.22	0.54	<	0.22	0.44	1.1	U	<	0.21	0.42	1.0	U	<	1.1	UJ		
HMX	13.3	2 / 9	<	U	0.039	0.11	0.16	<	0.096	0.22	0.44	U	<	0.092	0.21	0.42	U	8	0.41	J		
MNX	14.1	2 / 9	<	U	0.03	0.11	0.54	0.62	0.39		2.2	J	<	0.38	0.38	2.1	U	<	2.2	UJ		
Nitrobenzene	0.99 J	1 / 9	<	U	0.054	0.11	0.16	<	0.1	0.22	0.44	U	<	0.096	0.21	0.42	U	0.99	0.41	J		
RDX	45.9	1 / 9	<	U	0.039	0.11	0.16	<	0.057	0.13	0.22	U	<	0.055	0.13	0.21	U	<	0.21	UJ		
Tetryl	-	0 / 9	<	U	0.054	0.11	0.16	<	0.087	0.22	0.26	U	<	0.083	0.21	0.25	U	<	0.25	UJ		

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-67
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104-EXPLOSIVES

FIELD ID			G0104		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	0.16 J	1 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U
2-Nitrotoluene	0.15 J	1 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	13.3	2 / 9	13.3	0.8	
MNX	14.1	2 / 9	14.1	0.8	
Nitrobenzene	0.99 J	1 / 9	<	0.8	U
RDX	45.9	1 / 9	45.9	0.8	
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-68
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105-EXPLOSIVES

FIELD ID			G0105					G0105					G0105					G0105				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/11/2020					6/5/2019					3/13/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.081	0.19	0.2	<	U	0.089	0.21	0.22	<	U	0.21	0.41	1	<	U	0.033	0.01	0.02
1,3-Dinitrobenzene	-	0 / 9	<	U	0.036	0.097	0.11	<	U	0.039	0.11	0.12	<	U	0.091	0.21	0.41	<	U	0.053	0.01	0.02
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.043	0.097	0.11	<	U	0.047	0.11	0.12	<	U	0.16	0.41	0.41	<	U	0.053	0.01	0.02
2,4-Dinitrotoluene	-	0 / 9	<	U	0.026	0.077	0.1	<	U	0.029	0.084	0.11	<	U	0.086	0.21	0.41	<	U	0.053	0.01	0.01
2,6-Dinitrotoluene	-	0 / 9	<	U	0.039	0.077	0.1	<	U	0.042	0.084	0.11	<	U	0.066	0.21	0.21	<	U	0.053	0.01	0.01
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	UJ	0.049	0.097	0.11	<	U	0.053	0.11	0.12	<	U	0.052	0.12	0.21	<	U	0.032	0.01	0.02
2-Nitrotoluene	-	0 / 9	<	UJ	0.083	0.19	0.2	<	U	0.09	0.21	0.22	<	UJ	0.088	0.21	0.41	<	U	0.094	0.02	0.05
3-Nitrotoluene	-	0 / 9	<	UJ	0.19	0.39	0.39	<	U	0.21	0.42	0.42	<	U	0.2	0.41	0.41	<	U	0.061	0.02	0.05
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	UJ	0.056	0.12	0.14	<	U	0.061	0.13	0.16	<	U	0.059	0.12	0.21	<	U	0.053	0.01	0.02
4-Nitrotoluene	-	0 / 9	<	UJ	0.097	0.39	0.4	<	U	0.11	0.42	0.43	<	U	0.21	0.41	1	<	U	0.094	0.02	0.05
HMX	1.1 J	2 / 9	<	U	0.085	0.19	0.2	<	U	0.092	0.21	0.22	<	U	0.09	0.21	0.41	<	U	0.03	0.01	0.02
MNX	1.7 J	1 / 9	<	U	0.15	0.39	1.9	<	U	0.16	0.42	2.1	<	U	0.16	0.41	2.1	<	U	0.038	0.01	0.05
Nitrobenzene	0.11 J	1 / 9	<	U	0.088	0.19	0.2	<	U	0.096	0.21	0.22	<	U	0.094	0.21	0.41	<	U	0.053	0.01	0.02
RDX	-	0 / 9	<	U	0.05	0.19	0.2	<	U	0.054	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.038	0.01	0.02
Tetryl	-	0 / 9	<	U	0.031	0.097	0.11	<	U	0.033	0.11	0.12	<	U	0.082	0.21	0.25	<	U	0.053	0.01	0.02

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-68
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105-EXPLOSIVES

FIELD ID			G0105					G0105					G0105					G0105				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	3/22/2017					8/3/2016					8/5/2015					8/6/2014				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual		
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	UJ	0.032	0.1	0.15	<	0.22	0.43	1.1	U	<	0.21	0.42	1.1	U	<	1	U		
1,3-Dinitrobenzene	-	0 / 9	<	UJ	0.051	0.1	0.15	<	0.096	0.22	0.43	U	<	0.094	0.21	0.42	U	<	0.41	U		
2,4,6-Trinitrotoluene	-	0 / 9	<	UJ	0.051	0.1	0.15	<	0.078	0.22	0.43	U	<	0.077	0.21	0.42	U	<	0.41	U		
2,4-Dinitrotoluene	-	0 / 9	<	UJ	0.051	0.1	0.13	<	0.091	0.22	0.43	U	<	0.089	0.21	0.42	U	<	0.41	U		
2,6-Dinitrotoluene	-	0 / 9	<	UJ	0.051	0.1	0.13	<	0.07	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.2	U		
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	UJ	0.031	0.1	0.15	<	0.055	0.13	0.22	U	<	0.054	0.13	0.21	U	<	0.2	UJ		
2-Nitrotoluene	-	0 / 9	<	UJ	0.09	0.21	0.51	<	0.093	0.22	0.43	U	<	0.091	0.21	0.42	U	<	0.41	U		
3-Nitrotoluene	-	0 / 9	<	UJ	0.059	0.21	0.51	<	0.09	0.22	0.43	U	<	0.088	0.21	0.42	U	<	0.41	U		
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	UJ	0.051	0.1	0.15	<	0.063	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.2	U		
4-Nitrotoluene	-	0 / 9	<	UJ	0.09	0.21	0.51	<	0.22	0.43	1.1	U	<	0.21	0.42	1.1	U	<	1	U		
HMX	1.1 J	2 / 9	1.1	J	0.037	0.1	0.15	<	0.095	0.22	0.43	U	<	0.093	0.21	0.42	U	<	0.41	U		
MNX	1.7 J	1 / 9	<	UJ	0.029	0.1	0.51	1.7	0.39		2.2	J	<	0.38	0.38	2.1	U	<	2	U		
Nitrobenzene	0.11 J	1 / 9	<	UJ	0.051	0.1	0.15	<	0.099	0.22	0.43	U	<	0.096	0.21	0.42	U	0.11	0.41	J		
RDX	-	0 / 9	<	UJ	0.037	0.1	0.15	<	0.057	0.13	0.22	U	<	0.055	0.13	0.21	U	<	0.2	U		
Tetryl	-	0 / 9	<	UJ	0.051	0.1	0.15	<	0.086	0.22	0.26	U	<	0.084	0.21	0.25	U	<	0.24	U		

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-68
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105-EXPLOSIVES

FIELD ID			G0105		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	1.1 J	2 / 9	0.14	0.8	J
MNX	1.7 J	1 / 9	<	0.8	U
Nitrobenzene	0.11 J	1 / 9	<	0.8	U
RDX	-	0 / 9	<	0.8	U
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-69
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0106-EXPLOSIVES

FIELD ID			G0106					G0106					G0106					G0106				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/12/2020					6/5/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.085	0.2	0.21	<	U	0.087	0.21	0.22	<	U	0.2	0.39	0.98	<	U	0.003	0.01	0.02
1,3-Dinitrobenzene	-	0 / 9	<	U	0.037	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.087	0.2	0.39	<	U	0.01	0.01	0.02
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.045	0.1	0.11	<	U	0.046	0.1	0.11	<	U	0.16	0.39	0.39	<	U	0.01	0.01	0.02
2,4-Dinitrotoluene	-	0 / 9	<	U	0.028	0.081	0.1	<	U	0.028	0.083	0.1	<	U	0.082	0.2	0.39	<	U	0.01	0.01	0.01
2,6-Dinitrotoluene	-	0 / 9	<	U	0.04	0.081	0.1	<	U	0.041	0.083	0.1	<	U	0.063	0.2	0.2	<	U	0.01	0.01	0.01
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	UJ	0.051	0.1	0.11	<	U	0.052	0.1	0.11	<	U	0.049	0.12	0.2	<	U	0.003	0.01	0.02
2-Nitrotoluene	-	0 / 9	<	UJ	0.086	0.2	0.21	<	U	0.088	0.21	0.22	<	UJ	0.083	0.2	0.39	<	U	0.01	0.02	0.05
3-Nitrotoluene	-	0 / 9	<	UJ	0.2	0.4	0.4	<	U	0.2	0.41	0.41	<	U	0.19	0.39	0.39	<	U	0.01	0.02	0.05
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	UJ	0.058	0.12	0.15	<	U	0.06	0.12	0.15	<	U	0.056	0.12	0.2	<	U	0.01	0.01	0.02
4-Nitrotoluene	-	0 / 9	<	UJ	0.1	0.4	0.41	<	U	0.1	0.41	0.42	<	U	0.2	0.39	0.98	<	U	0.01	0.02	0.05
HMX	-	0 / 9	<	U	0.088	0.2	0.21	<	U	0.09	0.21	0.22	<	U	0.085	0.2	0.39	<	U	0.003	0.01	0.02
MNX	-	0 / 9	<	U	0.16	0.4	2	<	U	0.16	0.41	2.1	<	U	0.15	0.39	2	<	U	0.004	0.01	0.05
Nitrobenzene	-	0 / 9	<	U	0.092	0.2	0.21	<	U	0.094	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.01	0.01	0.02
RDX	-	0 / 9	<	U	0.052	0.2	0.21	<	U	0.053	0.21	0.22	<	U	0.15	0.39	0.39	<	U	0.004	0.01	0.02
Tetryl	-	0 / 9	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.077	0.2	0.23	<	U	0.01	0.01	0.02

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-69
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0106-EXPLOSIVES

FIELD ID			G0106					G0106					G0106					G0106		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/23/2017					8/3/2016					8/4/2015					8/7/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.032	0.10	0.16	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 9	<	U	0.05	0.10	0.16	<	0.097	0.22	0.44	U	<	0.095	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.05	0.10	0.16	<	0.08	0.22	0.44	U	<	0.078	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 9	<	U	0.05	0.10	0.13	<	0.092	0.22	0.44	U	<	0.090	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 9	<	U	0.05	0.10	0.13	<	0.071	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	U	0.031	0.10	0.16	<	0.056	0.13	0.22	U	<	0.054	0.13	0.21	U	<	0.2	U
2-Nitrotoluene	-	0 / 9	<	U	0.09	0.21	0.52	<	0.094	0.22	0.44	U	<	0.092	0.21	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 9	<	U	0.06	0.21	0.52	<	0.092	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	U	0.05	0.10	0.16	<	0.063	0.13	0.22	U	<	0.062	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	-	0 / 9	<	U	0.09	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
HMX	-	0 / 9	<	U	0.037	0.10	0.16	<	0.096	0.22	0.44	U	<	0.094	0.21	0.43	U	<	0.41	U
MNX	-	0 / 9	<	U	0.029	0.10	0.52	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 9	<	U	0.05	0.10	0.16	<	0.1	0.22	0.44	U	<	0.097	0.21	0.43	U	<	0.41	U
RDX	-	0 / 9	<	U	0.037	0.10	0.16	<	0.057	0.13	0.22	U	<	0.056	0.13	0.21	U	<	0.2	U
Tetryl	-	0 / 9	<	U	0.05	0.10	0.16	<	0.087	0.22	0.26	U	<	0.085	0.21	0.26	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-69
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0106-EXPLOSIVES

FIELD ID			G0106		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	-	0 / 9	<	0.8	U
MNX	-	0 / 9	<	0.8	U
Nitrobenzene	-	0 / 9	<	0.8	U
RDX	-	0 / 9	<	0.8	U
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-70
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0107-EXPLOSIVES

FIELD ID			G0107					G0107					G0107					G0107				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/11/2020					6/5/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.086	0.21	0.22	<	U	0.088	0.21	0.22	<	U	0.2	0.39	0.98	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 9	<	U	0.038	0.1	0.11	<	U	0.039	0.1	0.11	<	U	0.087	0.2	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.046	0.1	0.11	<	U	0.047	0.1	0.11	<	U	0.16	0.39	0.39	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 9	<	U	0.028	0.082	0.1	<	U	0.029	0.084	0.1	<	U	0.082	0.2	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 9	<	U	0.041	0.082	0.1	<	U	0.042	0.084	0.1	<	U	0.063	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	UJ	0.052	0.1	0.11	<	U	0.053	0.1	0.11	<	U	0.05	0.12	0.2	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 9	<	UJ	0.088	0.21	0.22	<	U	0.089	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.089	0.2	0.51
3-Nitrotoluene	-	0 / 9	<	UJ	0.2	0.41	0.41	<	U	0.2	0.42	0.42	<	U	0.19	0.39	0.39	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	UJ	0.059	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.056	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 9	<	UJ	0.1	0.41	0.42	<	U	0.1	0.42	0.43	<	U	0.2	0.39	0.98	<	U	0.089	0.2	0.51
HMX	-	0 / 9	<	U	0.09	0.21	0.22	<	U	0.091	0.21	0.22	<	U	0.086	0.2	0.39	<	U	0.028	0.1	0.15
MNX	-	0 / 9	<	U	0.16	0.41	2.1	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 9	<	U	0.093	0.21	0.22	<	U	0.095	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.051	0.1	0.15
RDX	-	0 / 9	<	U	0.053	0.21	0.22	<	U	0.054	0.21	0.22	<	U	0.15	0.39	0.39	<	U	0.037	0.1	0.15
Tetryl	-	0 / 9	<	U	0.033	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.077	0.2	0.23	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-70
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0107-EXPLOSIVES

FIELD ID			G0107					G0107					G0107					G0107		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/22/2017					8/3/2016					8/5/2015					8/7/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 9	<	U	0.032	0.1	0.16	<	0.21	0.43	1.1	U	<	0.22	0.44	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 9	<	U	0.052	0.1	0.16	<	0.095	0.21	0.43	U	<	0.098	0.22	0.44	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.16	<	0.077	0.21	0.43	U	<	0.080	0.22	0.44	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.14	<	0.089	0.21	0.43	U	<	0.092	0.22	0.44	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.14	<	0.069	0.21	0.21	U	<	0.071	0.22	0.22	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	U	0.031	0.1	0.16	<	0.054	0.13	0.21	U	<	0.056	0.13	0.22	U	<	0.2	U
2-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.091	0.21	0.43	U	<	0.094	0.22	0.44	U	<	0.41	U
3-Nitrotoluene	-	0 / 9	<	U	0.059	0.21	0.52	<	0.089	0.21	0.43	U	<	0.092	0.22	0.44	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.16	<	0.062	0.13	0.21	U	<	0.064	0.13	0.22	U	<	0.2	U
4-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.21	0.43	1.1	U	<	0.22	0.44	1.1	U	<	1	U
HMX	-	0 / 9	<	U	0.037	0.1	0.16	<	0.093	0.21	0.43	U	<	0.096	0.22	0.44	U	<	0.41	U
MNX	-	0 / 9	<	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.39	0.39	2.2	U	<	2	U
Nitrobenzene	-	0 / 9	<	U	0.052	0.1	0.16	<	0.097	0.21	0.43	U	<	0.10	0.22	0.44	U	<	0.41	U
RDX	-	0 / 9	<	U	0.037	0.1	0.16	<	0.056	0.13	0.21	U	<	0.058	0.17	0.22	U	<	0.2	U
Tetryl	-	0 / 9	<	U	0.052	0.1	0.16	<	0.085	0.21	0.26	U	<	0.087	0.22	0.26	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-70
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0107-EXPLOSIVES

FIELD ID			G0107		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	-	0 / 9	<	0.8	U
MNX	-	0 / 9	<	0.8	U
Nitrobenzene	-	0 / 9	<	0.8	U
RDX	-	0 / 9	<	0.8	U
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-71
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108-EXPLOSIVES

FIELD ID			G0108					G0108					G0108					G0108				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/14/2020					6/8/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	25.2 J	2 / 9	<	UJ	0.11	0.26	0.27	<	U	0.087	0.21	0.22	<	U	0.2	0.41	1	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	0.49 J	1 / 9	<	UJ	0.048	0.13	0.14	<	U	0.038	0.1	0.11	<	U	0.091	0.2	0.41	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	182 J	2 / 9	<	UJ	0.058	0.13	0.14	<	U	0.047	0.1	0.11	<	U	0.16	0.41	0.41	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	0.3 J	2 / 9	<	UJ	0.036	0.1	0.13	<	U	0.028	0.083	0.1	<	U	0.086	0.2	0.41	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	1.4 J	3 / 9	<	UJ	0.052	0.1	0.13	<	U	0.042	0.083	0.1	0.092	J	0.066	0.2	0.2	0.44	J	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	20.8 J	2 / 9	<	UJ	0.066	0.13	0.14	<	U	0.053	0.1	0.11	<	U	0.052	0.12	0.2	<	U	0.031	0.1	0.16
2-Nitrotoluene	0.45 J	1 / 9	<	UJ	0.11	0.26	0.27	<	U	0.089	0.21	0.22	<	UJ	0.088	0.2	0.41	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 9	<	UJ	0.25	0.52	0.52	<	U	0.2	0.41	0.41	<	UJ	0.2	0.41	0.41	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	47.6 J	2 / 9	<	UJ	0.075	0.16	0.19	<	U	0.06	0.12	0.16	<	U	0.059	0.12	0.2	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 9	<	UJ	0.13	0.52	0.53	<	U	0.1	0.41	0.42	<	UJ	0.2	0.41	1	<	U	0.092	0.21	0.52
HMX	12 J	3 / 9	<	UJ	0.11	0.26	0.27	<	U	0.091	0.21	0.22	<	U	0.09	0.2	0.41	0.79	J	0.029	0.1	0.16
MNX	11 J	2 / 9	<	UJ	0.2	0.52	2.6	<	U	0.16	0.41	2.1	<	U	0.16	0.41	2	<	U	0.038	0.1	0.52
Nitrobenzene	-	0 / 9	<	UJ	0.12	0.26	0.27	<	U	0.094	0.21	0.22	<	U	0.093	0.2	0.41	<	U	0.052	0.1	0.16
RDX	140 J	4 / 9	<	UJ	0.067	0.26	0.27	<	U	0.053	0.21	0.22	1.2	J	0.16	0.41	0.41	<	U	0.038	0.1	0.16
Tetryl	0.97 J	2 / 9	<	UJ	0.041	0.13	0.14	<	U	0.033	0.1	0.11	0.39		0.081	0.2	0.25	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-71
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108-EXPLOSIVES

FIELD ID			G0108					G0108					G0108					G0108		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/9/2016					8/17/2015					8/12/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	25.2 J	2 / 9	<	U	0.033	0.11	0.16	<	0.22	0.43	1.1	U	<	0.21	0.42	1.1	U	1.6	1	J
1,3-Dinitrobenzene	0.49 J	1 / 9	<	U	0.053	0.11	0.16	<	0.096	0.22	0.43	U	<	0.094	0.21	0.42	UJ	0.49	0.42	J
2,4,6-Trinitrotoluene	182 J	2 / 9	<	U	0.053	0.11	0.16	<	0.078	0.22	0.43	U	<	0.076	0.21	0.42	U	5.9	0.42	J
2,4-Dinitrotoluene	0.3 J	2 / 9	<	U	0.053	0.11	0.14	0.16	0.09	0.22	0.43	J	<	0.088	0.21	0.42	U	0.3	0.42	J
2,6-Dinitrotoluene	1.4 J	3 / 9	1.4	J	0.053	0.11	0.14	<	0.07	0.22	0.22	U	<	0.068	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	20.8 J	2 / 9	<	U	0.032	0.11	0.16	<	0.055	0.13	0.22	U	<	0.053	0.13	0.21	U	16	0.21	J
2-Nitrotoluene	0.45 J	1 / 9	<	U	0.093	0.21	0.53	0.45	0.092	0.22	0.43	J	<	0.090	0.21	0.42	U	<	0.42	U
3-Nitrotoluene	-	0 / 9	<	U	0.06	0.21	0.53	<	0.09	0.22	0.43	U	<	0.088	0.21	0.42	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	47.6 J	2 / 9	<	U	0.053	0.11	0.16	<	0.062	0.13	0.22	U	<	0.061	0.13	0.21	U	30	0.21	J
4-Nitrotoluene	-	0 / 9	<	U	0.093	0.21	0.53	<	0.22	0.43	1.1	U	<	0.21	0.42	1.1	U	<	1	U
HMX	12 J	3 / 9	<	U	0.038	0.11	0.16	<	0.094	0.22	0.43	U	<	0.092	0.21	0.42	U	12	0.42	J
MNX	11 J	2 / 9	<	U	0.03	0.11	0.53	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	UJ	11	2.1	J
Nitrobenzene	-	0 / 9	<	U	0.053	0.11	0.16	<	0.098	0.22	0.43	U	<	0.096	0.21	0.42	UJ	<	0.42	U
RDX	140 J	4 / 9	1.7	J	0.038	0.11	0.16	<	0.056	0.13	0.22	U	<	0.055	0.13	0.21	UJ	140	0.21	J
Tetryl	0.97 J	2 / 9	0.97	J	0.053	0.11	0.16	<	0.085	0.22	0.26	U	<	0.084	0.21	0.25	UJ	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-71
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108-EXPLOSIVES

FIELD ID			G0108		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	25.2 J	2 / 9	25.2	0.8	J
1,3-Dinitrobenzene	0.49 J	1 / 9	<	0.8	U
2,4,6-Trinitrotoluene	182 J	2 / 9	182	4	J
2,4-Dinitrotoluene	0.3 J	2 / 9	<	0.8	U
2,6-Dinitrotoluene	1.4 J	3 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	20.8 J	2 / 9	20.8	0.8	J
2-Nitrotoluene	0.45 J	1 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	47.6 J	2 / 9	47.6	1.4	J
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	12 J	3 / 9	4.8	0.8	J
MNX	11 J	2 / 9	2	0.8	J
Nitrobenzene	-	0 / 9	<	0.8	U
RDX	140 J	4 / 9	35.9	0.8	J
Tetryl	0.97 J	2 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-72
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109-EXPLOSIVES

FIELD ID			G0109					G0109					G0109					G0109				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/15/2020					6/8/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.1 J	2 / 9	<	U	0.081	0.19	0.2	<	U	0.09	0.21	0.22	<	U	0.2	0.39	0.98	0.1	J	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 9	<	U	0.036	0.097	0.11	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.043	0.097	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 9	<	U	0.026	0.077	0.1	<	U	0.029	0.085	0.11	<	U	0.082	0.2	0.39	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 9	<	U	0.039	0.077	0.1	<	U	0.043	0.085	0.11	<	U	0.063	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	U	0.049	0.097	0.11	<	U	0.054	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 9	<	UJ	0.083	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 9	<	UJ	0.19	0.39	0.39	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	U	0.056	0.12	0.14	<	U	0.062	0.13	0.16	<	U	0.056	0.12	0.2	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 9	<	UJ	0.097	0.39	0.4	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98	<	U	0.092	0.21	0.52
HMX	14	8 / 9	3.5		0.085	0.19	0.2	0.43	J	0.094	0.21	0.22	14		0.086	0.2	0.39	2.8		0.029	0.1	0.16
MNX	4.7	2 / 9	<	U	0.15	0.39	1.9	<	U	0.16	0.43	2.1	<	U	0.15	0.39	2	<	U	0.038	0.1	0.52
Nitrobenzene	-	0 / 9	<	U	0.088	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.052	0.1	0.16
RDX	1.9	6 / 9	<	U	0.05	0.19	0.2	0.68	J	0.055	0.21	0.22	3.5		0.15	0.39	0.39	<	U	0.038	0.1	0.16
Tetryl	-	0 / 9	<	U	0.031	0.097	0.11	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.23	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-72
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109-EXPLOSIVES

FIELD ID			G0109					G0109					G0109					G0109		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/16/2016					8/13/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.1 J	2 / 9	0.1	J	0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 9	<	U	0.052	0.1	0.15	<	0.098	0.22	0.44	U	<	0.095	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.15	<	0.08	0.22	0.44	U	<	0.078	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.13	<	0.092	0.22	0.44	U	<	0.090	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.13	<	0.071	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	U	0.031	0.1	0.15	<	0.056	0.13	0.22	U	<	0.054	0.13	0.21	U	<	0.2	UJ
2-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.094	0.22	0.44	U	<	0.092	0.21	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 9	<	U	0.059	0.21	0.52	<	0.092	0.22	0.44	U	<	0.090	0.21	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.15	<	0.064	0.13	0.22	U	<	0.062	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
HMX	14	8 / 9	5.9		0.037	0.1	0.15	0.98	0.097	0.22	0.44		5.5	0.094	0.21	0.43		4	0.41	
MNX	4.7	2 / 9	0.23	J	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	4.7	2.1	
Nitrobenzene	-	0 / 9	<	U	0.052	0.1	0.15	<	0.1	0.22	0.44	U	<	0.098	0.21	0.43	U	<	0.41	U
RDX	1.9	6 / 9	1.9		0.037	0.1	0.15	1.2	0.058	0.13	0.22		<	0.056	0.13	0.21	U	1.4	0.21	
Tetryl	-	0 / 9	<	U	0.052	0.1	0.15	<	0.087	0.22	0.26	U	<	0.085	0.21	0.26	U	<	0.24	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-72
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109-EXPLOSIVES

FIELD ID			G0109		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/21/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	0.1 J	2 / 9	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	14	8 / 9	<	0.8	U
MNX	4.7	2 / 9	<	0.8	U
Nitrobenzene	-	0 / 9	<	0.8	U
RDX	1.9	6 / 9	1.9	0.8	
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-73
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110-EXPLOSIVES

FIELD ID			G0110					G0110					G0110					G0110				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/13/2020					6/8/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.6 J	1 / 9	<	U	0.08	0.19	0.2	<	U	0.09	0.21	0.23	<	U	0.21	0.42	1.1	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 9	<	U	0.035	0.095	0.1	<	U	0.04	0.11	0.12	<	U	0.094	0.21	0.42	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	1.4	2 / 9	<	U	0.043	0.095	0.1	<	U	0.048	0.11	0.12	<	U	0.17	0.42	0.42	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 9	<	U	0.026	0.076	0.1	<	U	0.029	0.086	0.11	<	U	0.089	0.21	0.42	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	0.43 J	2 / 9	<	U	0.038	0.076	0.1	<	U	0.043	0.086	0.11	0.43	J	0.068	0.21	0.21	0.19	J	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	2.2	1 / 9	<	U	0.048	0.095	0.1	<	U	0.054	0.11	0.12	<	U	0.054	0.13	0.21	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 9	<	UJ	0.082	0.19	0.2	<	U	0.092	0.21	0.23	<	UJ	0.09	0.21	0.42	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 9	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.21	0.42	0.42	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	2.8	1 / 9	<	U	0.055	0.11	0.14	<	U	0.062	0.13	0.16	<	U	0.061	0.13	0.21	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 9	<	UJ	0.095	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.21	0.42	1.1	<	U	0.09	0.2	0.51
HMX	17.7	5 / 9	<	U	0.084	0.19	0.2	<	U	0.094	0.21	0.23	<	U	0.093	0.21	0.42	0.37	J	0.029	0.1	0.15
MNX	5.1 J	5 / 9	<	U	0.15	0.38	1.9	<	U	0.17	0.43	2.1	<	U	0.16	0.42	2.1	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 9	<	U	0.087	0.19	0.2	<	U	0.098	0.21	0.23	<	U	0.096	0.21	0.42	<	U	0.051	0.1	0.15
RDX	69.6	5 / 9	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.23	0.99	J	0.17	0.42	0.42	<	U	0.037	0.1	0.15
Tetryl	2.6 J	2 / 9	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12	2.6	J	0.084	0.21	0.25	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-73
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110-EXPLOSIVES

FIELD ID			G0110					G0110					G0110					G0110		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/16/2016					8/17/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	2.6 J	1 / 9	<	U	0.032	0.1	0.15	<	0.22	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1	U
1,3-Dinitrobenzene	-	0 / 9	<	U	0.052	0.1	0.15	<	0.096	0.22	0.43	U	<	0.092	0.21	0.42	U	<	0.41	U
2,4,6-Trinitrotoluene	1.4	2 / 9	0.16	J	0.052	0.1	0.15	<	0.078	0.22	0.43	U	<	0.075	0.21	0.42	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.13	<	0.09	0.22	0.43	U	<	0.087	0.21	0.42	U	<	0.41	U
2,6-Dinitrotoluene	0.43 J	2 / 9	<	U	0.052	0.1	0.13	<	0.07	0.22	0.22	U	<	0.067	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	2.2	1 / 9	<	U	0.031	0.1	0.15	<	0.055	0.13	0.22	U	<	0.053	0.12	0.21	U	<	0.21	UJ
2-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.092	0.22	0.43	U	<	0.089	0.21	0.42	U	<	0.42	UJ
3-Nitrotoluene	-	0 / 9	<	U	0.059	0.21	0.52	<	0.09	0.22	0.43	U	<	0.087	0.21	0.42	U	<	0.42	UJ
4-Amino-2,6-dinitrotoluene	2.8	1 / 9	<	U	0.052	0.1	0.15	<	0.062	0.13	0.22	U	<	0.060	0.13	0.21	U	<	0.21	UJ
4-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.22	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1.1	UJ
HMX	17.7	5 / 9	6.2	J	0.037	0.1	0.15	<	0.094	0.22	0.43	U	4.7	0.091	0.21	0.42	J	7.5	0.42	J
MNX	5.1 J	5 / 9	1.7	J	0.029	0.1	0.52	1.7	0.39		2.2	J	0.65	0.37	0.37	2.1	J	2.1	2.1	
Nitrobenzene	-	0 / 9	<	U	0.052	0.1	0.15	<	0.098	0.22	0.43	U	<	0.095	0.21	0.42	U	<	0.41	U
RDX	69.6	5 / 9	1.7	J	0.037	0.1	0.15	<	0.056	0.13	0.22	U	0.34	0.054	0.12	0.21	J	3	0.21	
Tetryl	2.6 J	2 / 9	1.5	J	0.052	0.1	0.15	<	0.086	0.22	0.26	U	<	0.082	0.21	0.25	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-73
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110-EXPLOSIVES

FIELD ID			G0110		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	2.6 J	1 / 9	2.6	0.8	J
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U
2,4,6-Trinitrotoluene	1.4	2 / 9	1.4	0.8	
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U
2,6-Dinitrotoluene	0.43 J	2 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	2.2	1 / 9	2.2	0.8	
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	2.8	1 / 9	2.8	1.4	
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	17.7	5 / 9	17.7	0.8	
MNX	5.1 J	5 / 9	5.1	0.8	J
Nitrobenzene	-	0 / 9	<	0.8	U
RDX	69.6	5 / 9	69.6	0.8	
Tetryl	2.6 J	2 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-74
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111-EXPLOSIVES

FIELD ID			G0111					G0111					G0111					G0111				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/12/2020					6/7/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	10	3 / 9	4.6		0.08	0.19	0.2	10		0.09	0.21	0.22	<	U	0.2	0.41	1	0.034	J	0.032	0.1	0.15
1,3-Dinitrobenzene	1.7 J	1 / 9	1.7	J	0.035	0.095	0.1	<	U	0.039	0.11	0.12	<	U	0.09	0.2	0.41	<	UJ	0.051	0.1	0.15
2,4,6-Trinitrotoluene	12	3 / 9	6.6		0.043	0.095	0.1	12		0.048	0.11	0.12	<	U	0.16	0.41	0.41	0.063	J	0.051	0.1	0.15
2,4-Dinitrotoluene	0.44	2 / 9	0.44		0.026	0.076	0.1	0.27		0.029	0.086	0.11	<	U	0.085	0.2	0.41	<	UJ	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 9	<	U	0.038	0.076	0.1	<	U	0.043	0.086	0.11	<	U	0.066	0.2	0.2	<	UJ	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	9.8	4 / 9	4.9		0.048	0.095	0.1	9.8		0.054	0.11	0.12	0.24		0.052	0.12	0.2	0.73	J	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 9	<	UJ	0.081	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.087	0.2	0.41	<	UJ	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 9	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	UJ	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	11	4 / 9	6.8		0.055	0.11	0.14	11		0.062	0.13	0.16	0.32	J	0.059	0.12	0.2	2.3	J	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 9	<	UJ	0.095	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.41	1	<	UJ	0.09	0.2	0.51
HMX	120 J	4 / 9	<	U	0.083	0.19	0.2	1.8		0.094	0.21	0.22	120	J	0.089	0.2	0.41	1.3	J	0.029	0.1	0.15
MNX	-	0 / 9	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1	<	U	0.16	0.41	2	<	UJ	0.037	0.1	0.51
Nitrobenzene	0.083 J	1 / 9	<	U	0.087	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.093	0.2	0.41	<	UJ	0.051	0.1	0.15
RDX	2	4 / 9	6.5	J	0.049	0.19	0.2	<	U	0.055	0.21	0.22	<	U	0.16	0.41	0.41	0.48	J	0.037	0.1	0.15
Tetryl	-	0 / 9	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12	<	U	0.081	0.2	0.24	<	UJ	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-74
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111-EXPLOSIVES

FIELD ID			G0111					G0111					G0111					G0111		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/16/2016					8/10/2015					8/12/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	10	3 / 9	<	U	0.032	0.1	0.15	<	0.22	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1	U
1,3-Dinitrobenzene	1.7 J	1 / 9	<	U	0.052	0.1	0.15	<	0.096	0.22	0.43	U	<	0.093	0.21	0.42	U	<	0.41	U
2,4,6-Trinitrotoluene	12	3 / 9	<	U	0.052	0.1	0.15	<	0.078	0.22	0.43	U	<	0.076	0.21	0.42	U	<	0.41	U
2,4-Dinitrotoluene	0.44	2 / 9	<	U	0.052	0.1	0.13	<	0.09	0.22	0.43	U	<	0.087	0.21	0.42	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 9	<	U	0.052	0.1	0.13	<	0.069	0.22	0.22	U	<	0.067	0.21	0.21	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	9.8	4 / 9	<	U	0.031	0.1	0.15	<	0.055	0.13	0.22	U	<	0.053	0.13	0.21	UJ	<	0.21	U
2-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.092	0.22	0.43	U	<	0.089	0.21	0.42	UJ	<	0.42	U
3-Nitrotoluene	-	0 / 9	<	U	0.059	0.21	0.52	<	0.09	0.22	0.43	U	<	0.087	0.21	0.42	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	11	4 / 9	<	U	0.052	0.1	0.15	<	0.062	0.13	0.22	U	<	0.060	0.13	0.21	U	<	0.21	U
4-Nitrotoluene	-	0 / 9	<	U	0.091	0.21	0.52	<	0.22	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1.1	U
HMX	120 J	4 / 9	1.2	J	0.037	0.1	0.15	<	0.094	0.22	0.43	U	<	0.091	0.21	0.42	U	<	0.42	U
MNX	-	0 / 9	<	U	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.37	0.37	2.0	UJ	<	2.1	U
Nitrobenzene	0.083 J	1 / 9	0.083	J	0.052	0.1	0.15	<	0.098	0.22	0.43	U	<	0.095	0.21	0.42	U	<	0.41	U
RDX	2	4 / 9	0.093	J	0.037	0.1	0.15	<	0.056	0.13	0.22	U	<	0.055	0.13	0.23	U	<	0.21	U
Tetryl	-	0 / 9	<	U	0.052	0.1	0.15	<	0.085	0.22	0.26	U	<	0.083	0.21	0.25	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-74
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111-EXPLOSIVES

FIELD ID			G0111		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	10	3 / 9	<	0.8	U
1,3-Dinitrobenzene	1.7 J	1 / 9	<	0.8	U
2,4,6-Trinitrotoluene	12	3 / 9	<	0.8	U
2,4-Dinitrotoluene	0.44	2 / 9	<	0.8	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U
2-Amino-4,6-dinitrotoluene	9.8	4 / 9	<	0.8	U
2-Nitrotoluene	-	0 / 9	<	0.8	U
3-Nitrotoluene	-	0 / 9	<	0.8	U
4-Amino-2,6-dinitrotoluene	11	4 / 9	<	1.4	U
4-Nitrotoluene	-	0 / 9	<	0.8	U
HMX	120 J	4 / 9	<	0.8	U
MNX	-	0 / 9	<	0.8	U
Nitrobenzene	0.083 J	1 / 9	<	0.8	U
RDX	2	4 / 9	2	0.8	
Tetryl	-	0 / 9	<	1.6	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-75
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0112-EXPLOSIVES

FIELD ID			G0112					G0112					G0112					G0112				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.7 J	4 / 8	<	UJ	0.083	0.2	0.21	<	U	0.089	0.21	0.22	<	U	0.21	0.42	1	0.29	J	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 8	<	UJ	0.037	0.099	0.11	<	U	0.039	0.11	0.12	<	U	0.092	0.21	0.42	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	1.7	5 / 8	<	UJ	0.045	0.099	0.11	<	U	0.047	0.11	0.12	<	U	0.17	0.42	0.42	0.072	J	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 8	<	UJ	0.027	0.079	0.1	<	U	0.029	0.084	0.11	<	U	0.087	0.21	0.42	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	0.086 J	1 / 8	<	UJ	0.04	0.079	0.1	<	U	0.042	0.084	0.11	<	U	0.067	0.21	0.21	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	0.63 J	6 / 8	0.14	J	0.05	0.099	0.11	<	U	0.053	0.11	0.12	0.14	J	0.053	0.12	0.21	0.26		0.032	0.11	0.16
2-Nitrotoluene	-	0 / 8	<	UJ	0.085	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.089	0.21	0.42	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.4	0.4	<	U	0.21	0.42	0.42	<	UJ	0.2	0.42	0.42	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	1.1 J	7 / 8	0.29	J	0.057	0.12	0.15	<	U	0.061	0.13	0.16	0.13	J	0.06	0.12	0.21	0.36		0.053	0.11	0.16
4-Nitrotoluene	-	0 / 8	<	UJ	0.099	0.4	0.41	<	U	0.11	0.42	0.43	<	UJ	0.21	0.42	1	<	U	0.093	0.21	0.53
HMX	2.1 J	4 / 8	2.1	J	0.087	0.2	0.21	<	U	0.092	0.21	0.22	0.9	J	0.091	0.21	0.42	0.77		0.03	0.11	0.16
MNX	0.029 J	1 / 8	<	UJ	0.15	2	0.21	<	U	0.16	0.42	2.1	<	U	0.16	0.42	2.1	<	U	0.038	0.11	0.53
Nitrobenzene	-	0 / 8	<	UJ	0.09	0.2	0.21	<	U	0.096	0.21	0.22	<	U	0.095	0.21	0.42	<	U	0.053	0.11	0.16
RDX	1.2	6 / 8	1.1	J	0.051	0.2	0.21	<	U	0.054	0.21	0.22	0.24	J	0.16	0.42	0.42	0.6		0.038	0.11	0.16
Tetryl	-	0 / 8	<	UJ	0.032	0.099	0.11	<	U	0.034	0.11	0.12	<	U	0.082	0.21	0.25	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-75
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0112-EXPLOSIVES

FIELD ID			G0112					G0112					G0112					G0112		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/10/2016					8/12/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	2.7 J	4 / 8	0.78	J	0.032	0.1	0.16	<	0.26	0.52	1.3	U	2.6	0.22	0.43	1.1		2.7	1	J
1,3-Dinitrobenzene	-	0 / 8	<	U	0.052	0.1	0.16	<	0.11	0.26	0.52	U	<	0.096	0.21	0.43	U	<	0.4	U
2,4,6-Trinitrotoluene	1.7	5 / 8	0.19		0.052	0.1	0.16	0.14	0.093	0.26	0.52	J	1.1	0.079	0.21	0.43		1.7	0.4	
2,4-Dinitrotoluene	-	0 / 8	<	U	0.052	0.1	0.13	<	0.11	0.26	0.52	U	<	0.091	0.21	0.43	U	<	0.4	U
2,6-Dinitrotoluene	0.086 J	1 / 8	0.086	J	0.052	0.1	0.13	<	0.083	0.26	0.26	U	<	0.070	0.21	0.22	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.63 J	6 / 8	<	U	0.031	0.1	0.16	0.16	0.065	0.15	0.26	J	0.44	0.055	0.13	0.22		0.63	0.2	J
2-Nitrotoluene	-	0 / 8	<	U	0.091	0.21	0.52	<	0.11	0.26	0.52	U	<	0.093	0.21	0.43	U	<	0.4	UJ
3-Nitrotoluene	-	0 / 8	<	U	0.059	0.21	0.52	<	0.11	0.26	0.52	U	<	0.091	0.21	0.43	U	<	0.4	UJ
4-Amino-2,6-dinitrotoluene	1.1 J	7 / 8	0.26		0.052	0.1	0.16	0.13	0.074	0.15	0.26	J	0.52	0.063	0.13	0.22		1.1	0.2	J
4-Nitrotoluene	-	0 / 8	<	U	0.091	0.21	0.52	<	0.26	0.52	1.3	U	<	0.22	0.43	1.1	U	<	1	UJ
HMX	2.1 J	4 / 8	1.2		0.037	0.1	0.16	<	0.11	0.26	0.52	U	<	0.095	0.21	0.43	U	<	0.4	U
MNX	0.029 J	1 / 8	0.029	J	0.029	0.1	0.52	<	0.46	0.46	2.6	U	<	0.39	0.39	2.2	U	<	2	U
Nitrobenzene	-	0 / 8	<	U	0.052	0.1	0.16	<	0.12	0.26	0.52	U	<	0.099	0.21	0.43	U	<	0.4	UJ
RDX	1.2	6 / 8	1.2		0.037	0.1	0.16	0.25	0.067	0.15	0.26	J	0.18	0.057	0.13	0.22	J	<	0.2	U
Tetryl	-	0 / 8	<	U	0.052	0.1	0.16	<	0.1	0.26	0.31	U	<	0.086	0.21	0.26	U	<	0.24	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-76
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0113-EXPLOSIVES

FIELD ID			G0113					G0113					G0113					G0113				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.13 J	1 / 8	<	U	0.08	0.19	0.2	<	U	0.088	0.21	0.22	<	U	0.2	0.39	0.99	0.13	J	0.032	0.1	0.16
1,3-Dinitrobenzene	1.3 J	2 / 8	<	U	0.035	0.096	0.11	0.045	J	0.039	0.1	0.11	<	U	0.087	0.2	0.39	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	3 J	2 / 8	<	U	0.043	0.096	0.11	<	U	0.047	0.1	0.11	<	U	0.16	0.39	0.39	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 8	<	U	0.026	0.077	0.1	<	U	0.029	0.084	0.1	<	U	0.083	0.2	0.39	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 8	<	U	0.038	0.077	0.1	<	U	0.042	0.084	0.1	<	U	0.064	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 8	<	U	0.048	0.096	0.11	<	U	0.053	0.1	0.11	<	U	0.05	0.12	0.2	<	U	0.031	0.1	0.16
2-Nitrotoluene	2.2 J	2 / 8	<	UJ	0.082	0.19	0.2	<	U	0.089	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.38	0.38	<	U	0.2	0.42	0.42	<	UJ	0.19	0.39	0.39	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	0.094 J	1 / 8	<	U	0.055	0.11	0.14	<	U	0.06	0.13	0.16	<	U	0.057	0.12	0.2	0.094	J	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 8	<	UJ	0.096	0.38	0.39	<	U	0.1	0.42	0.43	<	UJ	0.2	0.39	0.99	<	U	0.091	0.21	0.52
HMX	2.1 J	4 / 8	0.77		0.084	0.19	0.2	<	U	0.092	0.21	0.22	<	U	0.086	0.2	0.39	0.77		0.029	0.1	0.16
MNX	1.2 J	1 / 8	<	U	0.15	0.38	1.9	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	<	U	0.037	0.1	0.52
Nitrobenzene	0.067 J	1 / 8	<	U	0.087	0.19	0.2	<	U	0.095	0.21	0.22	<	U	0.09	0.2	0.39	<	U	0.052	0.1	0.16
RDX	1.4 J	1 / 8	<	U	0.049	0.19	0.2	<	U	0.054	0.21	0.22	<	U	0.16	0.39	0.39	<	U	0.037	0.1	0.16
Tetryl	0.55	2 / 8	<	U	0.03	0.096	0.11	<	U	0.033	0.1	0.11	0.55		0.078	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-76
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0113-EXPLOSIVES

FIELD ID			G0113					G0113					G0113					G0113		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/10/2016					8/14/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.13 J	1 / 8	<	U	0.032	0.1	0.15	<	0.22	0.45	1.1	U	<	0.23	0.45	1.1	U	<	1.1	U
1,3-Dinitrobenzene	1.3 J	2 / 8	<	U	0.051	0.1	0.15	<	0.099	0.22	0.45	U	<	0.10	0.23	0.45	U	1.3	0.43	J
2,4,6-Trinitrotoluene	3 J	2 / 8	0.09	J	0.051	0.1	0.15	<	0.081	0.22	0.45	U	<	0.081	0.23	0.45	U	3	0.43	J
2,4-Dinitrotoluene	-	0 / 8	<	U	0.051	0.1	0.13	<	0.094	0.22	0.45	U	<	0.094	0.23	0.45	U	<	0.43	U
2,6-Dinitrotoluene	-	0 / 8	<	U	0.051	0.1	0.13	<	0.072	0.22	0.22	U	<	0.073	0.23	0.23	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	-	0 / 8	<	U	0.031	0.1	0.15	<	0.057	0.13	0.22	U	<	0.057	0.14	0.23	U	<	0.21	U
2-Nitrotoluene	2.2 J	2 / 8	<	U	0.091	0.21	0.51	<	0.096	0.22	0.45	U	0.19	0.096	0.23	0.45	J	2.2	0.43	J
3-Nitrotoluene	-	0 / 8	<	U	0.059	0.21	0.51	<	0.093	0.22	0.45	U	<	0.094	0.23	0.45	U	<	0.43	U
4-Amino-2,6-dinitrotoluene	0.094 J	1 / 8	<	U	0.051	0.1	0.15	<	0.064	0.13	0.22	U	<	0.065	0.14	0.23	U	<	0.21	U
4-Nitrotoluene	-	0 / 8	<	U	0.091	0.21	0.51	<	0.22	0.45	1.1	U	<	0.23	0.45	1.1	U	<	1.1	U
HMX	2.1 J	4 / 8	2.1	J	0.037	0.1	0.15	0.47	0.098	0.22	0.45	J	<	0.099	0.23	0.45	U	<	0.43	U
MNX	1.2 J	1 / 8	1.2	J	0.029	0.1	0.51	<	4	4	22	U	<	0.40	0.40	2.3	U	<	2.1	U
Nitrobenzene	0.067 J	1 / 8	0.067	J	0.051	0.1	0.15	<	0.1	0.22	0.45	U	<	0.10	0.23	0.45	U	<	0.43	U
RDX	1.4 J	1 / 8	1.4	J	0.037	0.1	0.15	<	0.058	0.13	0.22	U	<	0.059	0.14	0.23	U	<	0.21	U
Tetryl	0.55	2 / 8	0.48	J	0.051	0.1	0.15	<	0.089	0.22	0.27	U	<	0.089	0.23	0.27	U	<	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-77
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0114-EXPLOSIVES

FIELD ID			G0114					G0114					G0114					G0114				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/14/2020					6/8/2019					3/23/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 8	<	U	0.081	0.19	0.2	<	U	0.09	0.21	0.22	<	U	0.2	0.4	1	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 8	<	U	0.035	0.096	0.11	<	U	0.039	0.11	0.12	<	U	0.089	0.2	0.4	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	0.11 J	1 / 8	<	U	0.043	0.096	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.05	0.1	0.15
2,4-Dinitrotoluene	-	0 / 8	<	U	0.026	0.077	0.1	<	U	0.029	0.085	0.11	<	U	0.084	0.2	0.4	<	U	0.05	0.1	0.13
2,6-Dinitrotoluene	-	0 / 8	<	U	0.038	0.077	0.1	<	U	0.043	0.085	0.11	<	U	0.065	0.2	0.2	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 8	<	U	0.049	0.096	0.11	<	U	0.054	0.11	0.12	<	U	0.051	0.12	0.2	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 8	<	UJ	0.082	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.089	0.2	0.5
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.2	0.4	0.4	<	U	0.058	0.2	0.5
4-Amino-2,6-dinitrotoluene	0.58	2 / 8	<	U	0.055	0.11	0.14	<	U	0.061	0.13	0.16	<	U	0.058	0.12	0.2	<	U	0.05	0.1	0.15
4-Nitrotoluene	-	0 / 8	<	UJ	0.096	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.4	1	<	U	0.089	0.2	0.5
HMX	2.8	2 / 8	<	U	0.084	0.19	0.2	<	U	0.093	0.21	0.22	<	U	0.088	0.2	0.4	0.68		0.028	0.1	0.15
MNX	0.55 J	2 / 8	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1	<	U	0.15	0.4	2	<	U	0.036	0.1	0.5
Nitrobenzene	-	0 / 8	<	U	0.087	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.091	0.2	0.4	<	U	0.05	0.1	0.15
RDX	9.5 J	6 / 8	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22	0.59	J	0.16	0.4	0.4	0.3		0.036	0.1	0.15
Tetryl	-	0 / 8	<	U	0.03	0.096	0.11	<	U	0.034	0.11	0.12	<	U	0.08	0.2	0.24	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-77
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0114-EXPLOSIVES

FIELD ID			G0114					G0114					G0114					G0114		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/15/2016					8/17/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 8	<	U	0.032	0.1	0.16	<	0.26	0.52	1.3	U	<	0.21	0.42	1.1	UJ	<	1	U
1,3-Dinitrobenzene	-	0 / 8	<	U	0.052	0.1	0.16	<	0.12	0.26	0.52	U	<	0.093	0.21	0.42	U	<	0.4	U
2,4,6-Trinitrotoluene	0.11 J	1 / 8	0.11	J	0.052	0.1	0.16	<	0.095	0.26	0.52	U	<	0.076	0.21	0.42	UJ	<	0.4	U
2,4-Dinitrotoluene	-	0 / 8	<	U	0.052	0.1	0.14	<	0.11	0.26	0.52	U	<	0.088	0.21	0.42	UJ	<	0.4	U
2,6-Dinitrotoluene	-	0 / 8	<	U	0.052	0.1	0.14	<	0.084	0.26	0.26	U	<	0.068	0.21	0.21	UJ	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 8	<	U	0.031	0.1	0.16	<	0.066	0.16	0.26	U	<	0.053	0.13	0.21	UJ	<	0.2	U
2-Nitrotoluene	-	0 / 8	<	U	0.092	0.21	0.52	<	0.11	0.26	0.52	U	<	0.090	0.21	0.42	UJ	<	0.4	U
3-Nitrotoluene	-	0 / 8	<	U	0.059	0.21	0.52	<	0.11	0.26	0.52	U	<	0.088	0.21	0.42	UJ	<	0.4	U
4-Amino-2,6-dinitrotoluene	0.58	2 / 8	0.58		0.052	0.1	0.16	<	0.076	0.16	0.26	U	0.19	0.061	0.13	0.21	J	<	0.2	U
4-Nitrotoluene	-	0 / 8	<	U	0.092	0.21	0.52	<	0.26	0.52	1.3	U	<	0.21	0.42	1.1	UJ	<	1	U
HMX	2.8	2 / 8	2.8		0.037	0.1	0.16	<	0.11	0.26	0.52	U	<	0.092	0.21	0.42	U	<	0.4	U
MNX	0.55 J	2 / 8	0.095	J	0.029	0.1	0.52	<	0.47	0.47	2.6	U	0.55	0.38	0.38	2.1	J	<	2	U
Nitrobenzene	-	0 / 8	<	U	0.052	0.1	0.16	<	0.12	0.26	0.52	U	<	0.096	0.21	0.42	UJ	<	0.4	U
RDX	9.5 J	6 / 8	5.8		0.037	0.1	0.16	3.2	0.069	0.16	0.26	J	9.5	0.055	0.13	0.21	J	2.1	0.2	
Tetryl	-	0 / 8	<	U	0.052	0.1	0.16	<	0.10	0.26	0.31	U	<	0.083	0.21	0.25	UJ	<	0.24	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-78
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0115-EXPLOSIVES

FIELD ID			G0115					G0115					G0115					G0115				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/12/2020					6/7/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.34 J	1 / 8	<	UJ	0.092	0.22	0.23	<	U	0.09	0.21	0.22	<	U	0.21	0.41	1	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 8	<	UJ	0.041	0.11	0.12	<	U	0.04	0.11	0.12	<	U	0.091	0.21	0.41	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	0.58	2 / 8	<	UJ	0.049	0.11	0.12	<	U	0.048	0.11	0.12	<	U	0.16	0.41	0.41	<	U	0.05	0.1	0.15
2,4-Dinitrotoluene	-	0 / 8	<	UJ	0.03	0.088	0.11	<	U	0.029	0.086	0.11	<	U	0.086	0.21	0.41	<	U	0.05	0.1	0.13
2,6-Dinitrotoluene	9.1 J	1 / 8	<	UJ	0.044	0.088	0.11	<	U	0.043	0.086	0.11	<	U	0.066	0.21	0.21	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	1.7 J	2 / 8	<	UJ	0.056	0.11	0.12	<	U	0.054	0.11	0.12	<	U	0.052	0.12	0.21	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 8	<	UJ	0.094	0.22	0.23	<	U	0.092	0.21	0.22	<	UJ	0.088	0.21	0.41	<	U	0.088	0.2	0.5
3-Nitrotoluene	-	0 / 8	<	UJ	0.21	0.44	0.44	<	U	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	U	0.057	0.2	0.5
4-Amino-2,6-dinitrotoluene	6.3 J	1 / 8	<	UJ	0.063	0.13	0.16	<	U	0.062	0.13	0.16	<	UJ	0.059	0.12	0.21	<	U	0.05	0.1	0.15
4-Nitrotoluene	-	0 / 8	<	UJ	0.11	0.44	0.45	<	U	0.11	0.43	0.44	<	UJ	0.21	0.41	1	<	U	0.088	0.2	0.5
HMX	5 J	2 / 8	<	UJ	0.096	0.44	2.2	<	U	0.094	0.21	0.22	<	U	0.09	0.21	0.41	2.1	J	0.028	0.1	0.15
MNX	0.13 J	1 / 8	<	UJ	0.17	0.22	0.23	<	U	0.16	0.43	2.1	<	U	0.16	0.41	2.1	<	U	0.036	0.1	0.5
Nitrobenzene	0.26 J	1 / 8	<	UJ	0.1	0.22	0.23	<	U	0.097	0.21	0.22	<	U	0.094	0.21	0.41	<	U	0.05	0.1	0.15
RDX	0.94 J	1 / 8	<	UJ	0.057	0.22	0.23	<	U	0.055	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.036	0.1	0.15
Tetryl	-	0 / 8	<	UJ	0.035	0.11	0.12	<	U	0.034	0.11	0.12	<	U	0.082	0.21	0.25	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-78
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0115-EXPLOSIVES

FIELD ID			G0115					G0115					G0115					G0115		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2017					8/4/2016					8/6/2015					8/11/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.34 J	1 / 8	0.34	J	0.033	0.11	0.16	<	0.23	0.46	1.2	U	<	0.24	0.48	1.2	U	<	1	U
1,3-Dinitrobenzene	-	0 / 8	<	U	0.053	0.11	0.16	<	0.1	0.23	0.46	U	<	0.11	0.24	0.48	U	<	0.41	U
2,4,6-Trinitrotoluene	0.58	2 / 8	<	U	0.053	0.11	0.16	<	0.084	0.23	0.46	U	0.58	0.086	0.24	0.48		0.39	0.41	J
2,4-Dinitrotoluene	-	0 / 8	<	U	0.053	0.11	0.14	<	0.097	0.23	0.46	U	<	0.10	0.24	0.48	UJ	<	0.41	U
2,6-Dinitrotoluene	9.1 J	1 / 8	9.1	J	0.053	0.11	0.14	<	0.075	0.23	0.23	U	<	0.077	0.24	0.24	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	1.7 J	2 / 8	<	U	0.032	0.11	0.16	<	0.059	0.14	0.23	U	0.81	0.060	0.14	0.24	J	1.7	0.21	J
2-Nitrotoluene	-	0 / 8	<	U	0.092	0.21	0.53	<	0.099	0.23	0.46	U	<	0.10	0.24	0.48	UJ	<	0.41	U
3-Nitrotoluene	-	0 / 8	<	U	0.06	0.21	0.53	<	0.097	0.23	0.46	U	<	0.099	0.24	0.48	UJ	<	0.41	U
4-Amino-2,6-dinitrotoluene	6.3 J	1 / 8	<	U	0.053	0.11	0.16	<	0.067	0.14	0.23	U	<	0.069	0.14	0.24	U	6.3	0.21	J
4-Nitrotoluene	-	0 / 8	<	U	0.092	0.21	0.53	<	0.23	0.46	1.2	U	<	0.24	0.48	1.2	UJ	<	1	U
HMX	5 J	2 / 8	5	J	0.038	0.11	0.16	<	0.1	0.23	0.46	U	<	0.10	0.24	0.48	U	<	0.41	U
MNX	0.13 J	1 / 8	0.13	J	0.029	0.11	0.53	<	0.83	0.83	4.6	U	<	0.43	0.43	2.3	U	<	2.1	U
Nitrobenzene	0.26 J	1 / 8	<	U	0.053	0.11	0.16	0.26	0.11	0.23	0.46	J	<	0.11	0.24	0.48	U	<	0.41	U
RDX	0.94 J	1 / 8	0.94	J	0.038	0.11	0.16	<	0.061	0.14	0.23	U	<	0.062	0.14	0.24	U	<	0.21	U
Tetryl	-	0 / 8	<	U	0.053	0.11	0.16	<	0.092	0.23	0.28	U	<	0.094	0.24	0.29	U	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-79
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0116-EXPLOSIVES

FIELD ID			G0116					G0116					G0116					G0116				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/12/2020					6/6/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 8	<	UJ	0.082	0.19	0.2	<	U	0.089	0.21	0.22	<	U	0.2	0.41	1	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 8	<	UJ	0.036	0.097	0.11	<	U	0.039	0.11	0.12	<	U	0.091	0.2	0.41	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	0.23 J	1 / 8	<	UJ	0.044	0.097	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.41	0.41	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	3.3	1 / 8	<	UJ	0.027	0.078	0.1	<	U	0.029	0.085	0.11	<	U	0.086	0.2	0.41	3.3		0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 8	<	UJ	0.039	0.078	0.1	<	U	0.043	0.085	0.11	<	U	0.066	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	6.7 J	1 / 8	<	UJ	0.049	0.097	0.11	6.7	J	0.054	0.11	0.12	<	U	0.052	0.12	0.2	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 8	<	UJ	0.083	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.087	0.2	0.41	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.39	0.39	<	U	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	UJ	0.056	0.12	0.15	<	U	0.061	0.13	0.16	<	UJ	0.059	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 8	<	UJ	0.097	0.39	0.4	<	U	0.11	0.43	0.44	<	UJ	0.2	0.41	1	<	U	0.09	0.2	0.51
HMX	9.1 J	1 / 8	<	UJ	0.085	0.19	0.2	<	U	0.093	0.21	0.22	<	U	0.09	0.2	0.41	9.1	J	0.029	0.1	0.15
MNX	4.7 J	1 / 8	<	UJ	0.15	0.39	1.9	<	U	0.16	0.43	2.1	<	U	0.16	0.41	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 8	<	UJ	0.088	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.093	0.2	0.41	<	U	0.051	0.1	0.15
RDX	0.47 J	1 / 8	<	UJ	0.05	0.19	0.2	<	U	0.055	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.037	0.1	0.15
Tetryl	0.58 J	1 / 8	<	UJ	0.031	0.097	0.11	<	U	0.034	0.11	0.12	<	U	0.081	0.2	0.25	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-79
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0116-EXPLOSIVES

FIELD ID			G0116					G0116					G0116					G0116		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/5/2016					8/11/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 8	<	U	0.034	0.11	0.17	<	0.22	0.44	1.1	U	<	0.20	0.41	1.0	UJ	<	1	U
1,3-Dinitrobenzene	-	0 / 8	<	U	0.055	0.11	0.17	<	0.097	0.22	0.44	U	<	0.091	0.20	0.41	UJ	<	0.41	U
2,4,6-Trinitrotoluene	0.23 J	1 / 8	0.23	J	0.055	0.11	0.17	<	0.079	0.22	0.44	U	<	0.074	0.20	0.41	UJ	<	0.41	U
2,4-Dinitrotoluene	3.3	1 / 8	<	U	0.055	0.11	0.14	<	0.092	0.22	0.44	U	<	0.086	0.20	0.41	UJ	<	0.41	U
2,6-Dinitrotoluene	-	0 / 8	<	U	0.055	0.11	0.14	<	0.071	0.22	0.22	U	<	0.066	0.20	0.20	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	6.7 J	1 / 8	<	U	0.033	0.11	0.17	<	0.055	0.13	0.22	U	<	0.052	0.12	0.20	UJ	<	0.21	U
2-Nitrotoluene	-	0 / 8	<	U	0.097	0.22	0.55	<	0.093	0.22	0.44	U	<	0.087	0.20	0.41	UJ	<	0.41	U
3-Nitrotoluene	-	0 / 8	<	U	0.063	0.22	0.55	<	0.091	0.22	0.44	U	<	0.085	0.20	0.41	UJ	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	U	0.055	0.11	0.17	<	0.063	0.13	0.22	U	<	0.059	0.12	0.20	UJ	<	0.21	U
4-Nitrotoluene	-	0 / 8	<	U	0.097	0.22	0.55	<	0.22	0.44	1.1	U	<	0.20	0.41	1.0	UJ	<	1	U
HMX	9.1 J	1 / 8	<	U	0.04	0.11	0.17	<	0.096	0.22	0.44	U	<	0.089	0.20	0.41	U	<	0.41	U
MNX	4.7 J	1 / 8	<	U	0.031	0.11	0.55	<	0.39	0.39	2.2	U	4.7	0.37	0.4	2.0	J	<	2.1	U
Nitrobenzene	-	0 / 8	<	U	0.055	0.11	0.17	<	0.099	0.22	0.44	U	<	0.093	0.20	0.41	UJ	<	0.41	U
RDX	0.47 J	1 / 8	0.47	J	0.04	0.11	0.17	<	0.057	0.13	0.22	U	<	0.053	0.12	0.20	U	<	0.21	U
Tetryl	0.58 J	1 / 8	0.58	J	0.055	0.11	0.17	<	0.087	0.22	0.26	U	<	0.081	0.20	0.24	UJ	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-80
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0117-EXPLOSIVES

FIELD ID			G0117					G0117					G0117					G0117				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/12/2020					6/6/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 8	<	U	0.082	0.19	0.2	<	U	0.089	0.21	0.22	<	U	0.21	0.41	1	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 8	<	U	0.036	0.097	0.11	<	U	0.039	0.11	0.12	<	U	0.091	0.21	0.41	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	3.6 J	1 / 8	<	U	0.044	0.097	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.41	0.41	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 8	<	U	0.027	0.078	0.1	<	U	0.029	0.085	0.11	<	U	0.086	0.21	0.41	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 8	<	U	0.039	0.078	0.1	<	U	0.042	0.085	0.11	<	U	0.066	0.21	0.21	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	6.5 J	1 / 8	<	U	0.049	0.097	0.11	<	U	0.054	0.11	0.12	<	U	0.052	0.12	0.21	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 8	<	UJ	0.083	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.088	0.21	0.41	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.39	0.39	<	U	0.21	0.42	0.42	<	UJ	0.2	0.41	0.41	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	9.5 J	1 / 8	<	U	0.056	0.12	0.15	<	U	0.061	0.13	0.16	<	UJ	0.059	0.12	0.21	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 8	<	UJ	0.097	0.39	0.4	<	U	0.11	0.42	0.43	<	UJ	0.21	0.41	1	<	U	0.092	0.21	0.52
HMX	-	0 / 8	<	U	0.085	0.19	0.2	<	U	0.093	0.21	0.22	<	U	0.09	0.21	0.41	<	U	0.029	0.1	0.16
MNX	12 J	1 / 8	<	U	0.15	0.39	1.9	<	U	0.16	0.42	2.1	12	J	0.16	0.41	2.1	<	U	0.038	0.1	0.52
Nitrobenzene	-	0 / 8	<	U	0.089	0.19	0.2	<	U	0.096	0.21	0.22	<	U	0.094	0.21	0.41	<	U	0.052	0.1	0.16
RDX	1.5 J	1 / 8	<	U	0.05	0.19	0.2	<	U	0.055	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.038	0.1	0.16
Tetryl	-	0 / 8	<	U	0.031	0.097	0.11	<	U	0.034	0.11	0.12	<	U	0.082	0.21	0.25	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-80
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0117-EXPLOSIVES

FIELD ID			G0117					G0117					G0117					G0117		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/10/2016					8/11/2015					8/12/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 8	<	U	0.032	0.1	0.15	<	0.23	0.46	1.2	U	<	0.21	0.42	1.0	UJ	<	1	U
1,3-Dinitrobenzene	-	0 / 8	<	U	0.051	0.1	0.15	<	0.1	0.23	0.46	U	<	0.092	0.21	0.42	UJ	<	0.42	U
2,4,6-Trinitrotoluene	3.6 J	1 / 8	<	U	0.051	0.1	0.15	<	0.084	0.23	0.46	U	<	0.075	0.21	0.42	UJ	3.6	0.42	J
2,4-Dinitrotoluene	-	0 / 8	<	U	0.051	0.1	0.13	<	0.097	0.23	0.46	U	<	0.087	0.21	0.42	UJ	<	0.42	U
2,6-Dinitrotoluene	-	0 / 8	<	U	0.051	0.1	0.13	<	0.075	0.23	0.23	U	<	0.067	0.21	0.21	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	6.5 J	1 / 8	<	U	0.031	0.1	0.15	<	0.059	0.14	0.23	U	<	0.053	0.12	0.21	UJ	6.5	0.21	J
2-Nitrotoluene	-	0 / 8	<	U	0.091	0.21	0.51	<	0.099	0.23	0.46	U	<	0.089	0.21	0.42	UJ	<	0.42	U
3-Nitrotoluene	-	0 / 8	<	U	0.059	0.21	0.51	<	0.097	0.23	0.46	U	<	0.087	0.21	0.42	UJ	<	0.42	U
4-Amino-2,6-dinitrotoluene	9.5 J	1 / 8	<	U	0.051	0.1	0.15	<	0.067	0.14	0.23	U	<	0.060	0.12	0.21	UJ	9.5	0.21	J
4-Nitrotoluene	-	0 / 8	<	U	0.091	0.21	0.51	<	0.23	0.46	1.2	U	<	0.21	0.42	1.0	UJ	<	1	U
HMX	-	0 / 8	<	U	0.037	0.1	0.15	<	0.1	0.23	0.46	U	<	0.091	0.21	0.42	UJ	<	0.42	U
MNX	12 J	1 / 8	<	U	0.029	0.1	0.51	<	0.42	0.42	2.3	U	<	0.37	0.37	2.1	UJ	<	2.1	U
Nitrobenzene	-	0 / 8	<	U	0.051	0.1	0.15	<	0.11	0.23	0.46	U	<	0.095	0.21	0.42	UJ	<	0.42	U
RDX	1.5 J	1 / 8	1.5	J	0.037	0.1	0.15	<	0.061	0.14	0.23	U	<	0.054	0.12	0.21	UJ	<	0.21	U
Tetryl	-	0 / 8	<	U	0.051	0.1	0.15	<	0.092	0.23	0.28	U	<	0.083	0.21	0.25	UJ	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-81
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0118-EXPLOSIVES

FIELD ID			G0118					G0118					G0118					G0118				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/14/2020					6/8/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	47 J	1 / 8	<	UJ	0.081	0.19	0.2	<	U	0.92	2.2	2.3	<	U	0.2	0.39	0.99	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 8	<	UJ	0.036	0.097	0.11	<	U	0.4	1.1	1.2	<	U	0.088	0.2	0.39	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	12 J	2 / 8	<	UJ	0.043	0.097	0.11	<	U	0.49	1.1	1.2	<	U	0.16	0.39	0.39	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	0.23 J	1 / 8	<	UJ	0.026	0.077	0.1	<	U	0.3	0.87	1.1	<	U	0.083	0.2	0.39	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 8	<	UJ	0.039	0.077	0.1	<	U	0.44	0.87	1.1	<	U	0.064	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	1.7 J	3 / 8	<	UJ	0.049	0.097	0.11	1.5		0.55	1.1	1.2	<	U	0.05	0.12	0.2	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 8	<	UJ	0.083	0.19	0.2	<	U	0.93	2.2	2.3	<	UJ	0.084	0.2	0.39	<	U	0.092	0.21	0.53
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.39	0.39	<	U	2.1	4.4	4.4	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	2.3 J	1 / 8	<	UJ	0.056	0.12	0.14	<	U	0.63	1.3	1.6	<	U	0.057	0.12	0.2	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 8	<	UJ	0.097	0.39	0.4	<	U	1.1	4.4	4.5	<	UJ	0.2	0.39	0.99	<	U	0.092	0.21	0.53
HMX	5.3	2 / 8	<	UJ	0.085	0.19	0.2	<	U	0.95	2.2	2.3	<	U	0.086	0.2	0.39	5	J	0.029	0.11	0.16
MNX	0.57 J	2 / 8	<	UJ	0.15	0.39	1.9	<	U	1.7	4.4	22	<	U	0.15	0.39	2	<	U	0.038	0.11	0.53
Nitrobenzene	0.88 J	1 / 8	0.88	J	0.088	0.19	0.2	<	U	0.99	2.2	2.3	<	U	0.09	0.2	0.39	<	U	0.053	0.11	0.16
RDX	0.8 J	2 / 8	<	UJ	0.05	0.19	0.2	<	U	0.56	2.2	2.3	<	U	0.16	0.39	0.39	<	U	0.038	0.11	0.16
Tetryl	-	0 / 8	<	UJ	0.031	0.097	0.11	<	U	0.35	1.1	1.2	<	U	0.078	0.2	0.24	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-81
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0118-EXPLOSIVES

FIELD ID			G0118					G0118					G0118					G0118		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2017					8/16/2016					8/18/2015					12/9/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	47 J	1 / 8	<	U	0.032	0.1	0.16	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	47	12	J
1,3-Dinitrobenzene	-	0 / 8	<	U	0.052	0.1	0.16	<	0.097	0.22	0.44	U	<	0.095	0.21	0.43	UJ	<	0.47	U
2,4,6-Trinitrotoluene	12 J	2 / 8	0.49	J	0.052	0.1	0.16	<	0.079	0.22	0.44	U	<	0.077	0.21	0.43	U	12	0.47	J
2,4-Dinitrotoluene	0.23 J	1 / 8	<	U	0.052	0.1	0.14	<	0.091	0.22	0.44	U	<	0.089	0.21	0.43	U	0.23	0.47	J
2,6-Dinitrotoluene	-	0 / 8	<	U	0.052	0.1	0.14	<	0.07	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.24	U
2-Amino-4,6-dinitrotoluene	1.7 J	3 / 8	<	U	0.031	0.1	0.16	<	0.055	0.13	0.22	U	0.32	0.054	0.13	0.21	J	1.7	0.24	J
2-Nitrotoluene	-	0 / 8	<	U	0.092	0.21	0.52	<	0.093	0.22	0.44	U	<	0.00	0.21	0.43	U	<	0.47	U
3-Nitrotoluene	-	0 / 8	<	U	0.06	0.21	0.52	<	0.091	0.22	0.44	U	<	0.091	0.21	0.43	UJ	<	0.47	U
4-Amino-2,6-dinitrotoluene	2.3 J	1 / 8	<	U	0.052	0.1	0.16	<	0.063	0.13	0.22	U	<	0.062	0.13	0.21	UJ	2.3	0.24	J
4-Nitrotoluene	-	0 / 8	<	U	0.092	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.42	1.1	U	<	1.2	U
HMX	5.3	2 / 8	<	U	0.038	0.1	0.16	<	0.095	0.22	0.44	U	5.3	0.093	0.21	0.43		<	0.47	U
MNX	0.57 J	2 / 8	<	U	0.029	0.1	0.52	<	0.39	0.39	2.2	U	0.54	0.38	0.38	2.1	J	0.57	2.4	J
Nitrobenzene	0.88 J	1 / 8	<	U	0.052	0.1	0.16	<	0.099	0.22	0.44	U	<	0.097	0.21	0.43	U	<	0.47	U
RDX	0.8 J	2 / 8	<	U	0.038	0.1	0.16	<	0.057	0.13	0.22	U	0.8	0.056	0.13	0.21	J	0.67	0.24	J
Tetryl	-	0 / 8	<	U	0.052	0.1	0.16	<	0.086	0.22	0.26	U	<	0.085	0.21	0.26	U	<	0.28	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-82
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0119-EXPLOSIVES

FIELD ID			G0119					G0119					G0119					G0119				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/13/2020					6/7/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 8	<	U	0.08	0.19	0.2	<	U	0.092	0.22	0.23	<	U	0.2	0.39	0.98	<	UJ	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 8	<	U	0.035	0.096	0.11	<	U	0.04	0.11	0.12	<	U	0.087	0.2	0.39	<	UJ	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 8	<	U	0.043	0.096	0.11	<	U	0.049	0.11	0.12	<	U	0.16	0.39	0.39	<	UJ	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 8	<	U	0.026	0.077	0.1	<	U	0.03	0.088	0.11	<	U	0.082	0.2	0.39	<	UJ	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 8	<	U	0.038	0.077	0.1	<	U	0.044	0.088	0.11	<	U	0.063	0.2	0.2	<	UJ	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.074 J	1 / 8	<	U	0.049	0.096	0.11	<	U	0.056	0.11	0.12	<	U	0.05	0.12	0.2	<	UJ	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 8	<	UJ	0.082	0.19	0.2	<	U	0.094	0.22	0.23	<	UJ	0.084	0.2	0.39	<	UJ	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 8	<	UJ	0.19	0.38	0.38	<	U	0.21	0.44	0.44	<	UJ	0.19	0.39	0.39	<	UJ	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	U	0.055	0.11	0.14	<	U	0.063	0.13	0.16	<	UJ	0.057	0.12	0.2	<	UJ	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 8	<	UJ	0.096	0.38	0.39	<	U	0.11	0.44	0.45	<	UJ	0.2	0.39	0.98	<	UJ	0.09	0.2	0.51
HMX	2.5 J	4 / 8	<	U	0.084	0.19	0.2	0.45	J	0.096	0.22	0.23	<	U	0.086	0.2	0.39	0.085	J	0.029	0.1	0.15
MNX	0.63 J	1 / 8	<	U	0.15	0.38	1.9	<	U	0.17	0.44	2.2	<	U	0.15	0.39	2	<	UJ	0.037	0.1	0.51
Nitrobenzene	0.39 J	1 / 8	<	U	0.087	0.19	0.2	<	U	0.1	0.22	0.23	<	U	0.089	0.2	0.39	<	UJ	0.051	0.1	0.15
RDX	4	3 / 8	<	U	0.049	0.19	0.2	1.1	J	0.056	0.22	0.23	<	U	0.15	0.39	0.39	<	UJ	0.037	0.1	0.15
Tetryl	-	0 / 8	<	U	0.03	0.096	0.11	<	U	0.035	0.11	0.12	<	U	0.078	0.2	0.24	<	UJ	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-82
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0119-EXPLOSIVES

FIELD ID			G0119					G0119					G0119					G0119		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/10/2016					8/7/2015					12/8/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 8	<	UJ	0.032	0.1	0.16	<	0.22	0.44	1.1	U	<	0.22	0.22	1.1	U	<	0.97	U
1,3-Dinitrobenzene	-	0 / 8	<	UJ	0.052	0.1	0.16	<	0.097	0.22	0.44	U	<	0.098	0.22	0.44	U	<	0.39	U
2,4,6-Trinitrotoluene	-	0 / 8	<	UJ	0.052	0.1	0.16	<	0.079	0.22	0.44	U	<	0.080	0.22	0.44	U	<	0.39	U
2,4-Dinitrotoluene	-	0 / 8	<	UJ	0.052	0.1	0.14	<	0.092	0.22	0.44	U	<	0.093	0.22	0.44	UJ	<	0.39	U
2,6-Dinitrotoluene	-	0 / 8	<	UJ	0.052	0.1	0.14	<	0.071	0.22	0.22	U	<	0.071	0.22	0.22	UJ	<	0.39	U
2-Amino-4,6-dinitrotoluene	0.074 J	1 / 8	<	UJ	0.031	0.1	0.16	<	0.056	0.13	0.22	U	<	0.056	0.13	0.22	UJ	0.074	0.39	J
2-Nitrotoluene	-	0 / 8	<	UJ	0.092	0.21	0.52	<	0.094	0.22	0.44	U	<	0.095	0.22	0.44	UJ	<	0.39	U
3-Nitrotoluene	-	0 / 8	<	UJ	0.06	0.21	0.52	<	0.091	0.22	0.44	U	<	0.092	0.22	0.44	UJ	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	UJ	0.052	0.1	0.16	<	0.063	0.13	0.22	U	<	0.064	0.13	0.22	U	<	0.39	U
4-Nitrotoluene	-	0 / 8	<	UJ	0.092	0.21	0.52	<	0.22	0.44	1.1	U	<	0.22	0.44	1.1	UJ	<	0.97	U
HMX	2.5 J	4 / 8	<	UJ	0.038	0.1	0.16	2.5	0.096	0.22	0.44	J	2.0	0.097	0.22	0.44		<	0.39	U
MNX	0.63 J	1 / 8	<	UJ	0.029	0.1	0.52	<	3.9	3.9	22	U	0.63	0.40	0.40	2.2	J	<	1.9	U
Nitrobenzene	0.39 J	1 / 8	<	UJ	0.052	0.1	0.16	0.39	0.1	0.22	0.44	J	<	0.10	0.22	0.44	U	<	0.39	U
RDX	4	3 / 8	<	UJ	0.038	0.1	0.16	<	0.057	0.13	0.22	U	4.0	0.058	0.13	0.22		0.99	0.39	
Tetryl	-	0 / 8	<	UJ	0.052	0.1	0.16	<	0.087	0.22	0.26	U	<	0.088	0.22	0.27	U	<	0.39	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-83
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0120-EXPLOSIVES

FIELD ID			G0120					G0120					G0120					G0120				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None					6/12/2020					6/7/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 7						<	U	0.088	0.21	0.22	<	U	0.21	0.41	1	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 7						<	U	0.039	0.1	0.12	<	U	0.092	0.21	0.41	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	1.4 J	1 / 7						<	U	0.047	0.1	0.12	<	U	0.17	0.41	0.41	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	0.22 J	2 / 7						<	U	0.029	0.084	0.1	<	U	0.087	0.21	0.41	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 7		**Not Sampled**				<	U	0.042	0.084	0.1	<	U	0.067	0.21	0.21	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	14	2 / 7		**in 2021**				<	U	0.053	0.1	0.12	<	U	0.052	0.12	0.21	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 7						<	U	0.089	0.21	0.22	<	UJ	0.088	0.21	0.41	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 7						<	U	0.2	0.42	0.42	<	U	0.2	0.41	0.41	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	8.6	2 / 7						<	U	0.06	0.13	0.16	<	U	0.06	0.12	0.21	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 7						<	U	0.1	0.42	0.43	<	U	0.21	0.41	1	<	U	0.091	0.21	0.52
HMX	10 J	2 / 7						<	U	0.092	0.21	0.22	<	U	0.09	0.21	0.41	10	J	0.029	0.1	0.16
MNX	73 J	1 / 7						<	U	0.16	0.42	2.1	<	U	0.16	0.41	2.1	<	U	0.037	0.1	0.52
Nitrobenzene	0.2 J	1 / 7						<	U	0.095	0.21	0.22	<	U	0.094	0.21	0.41	<	U	0.052	0.1	0.16
RDX	0.72 J	1 / 7						<	U	0.054	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.037	0.1	0.16
Tetryl	-	0 / 7						<	U	0.033	0.1	0.12	<	U	0.082	0.21	0.25	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-83
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0120-EXPLOSIVES

FIELD ID			G0120					G0120					G0120					G0120		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/9/2016					8/11/2015					12/8/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 7	<	U	0.032	0.1	0.16	<	0.24	0.49	1.2	U	<	0.20	0.41	1.0	UJ	<	0.95	U
1,3-Dinitrobenzene	-	0 / 7	<	U	0.052	0.1	0.16	<	0.11	0.24	0.49	U	<	0.090	0.20	0.41	UJ	<	0.38	U
2,4,6-Trinitrotoluene	1.4 J	1 / 7	<	U	0.052	0.1	0.16	<	0.088	0.24	0.49	U	1.4	0.073	0.20	0.41	J	<	0.38	U
2,4-Dinitrotoluene	0.22 J	2 / 7	0.22		0.052	0.1	0.14	<	0.1	0.24	0.49	U	0.22	0.085	0.20	0.41	J	<	0.38	U
2,6-Dinitrotoluene	-	0 / 7	<	U	0.052	0.1	0.14	<	0.078	0.24	0.24	U	<	0.065	0.20	0.20	UJ	<	0.19	U
2-Amino-4,6-dinitrotoluene	14	2 / 7	<	U	0.031	0.1	0.16	14	0.062	0.15	0.24		12	0.051	0.12	0.20		<	0.19	U
2-Nitrotoluene	-	0 / 7	<	U	0.092	0.21	0.52	<	0.1	0.24	0.49	U	<	0.087	0.20	0.41	UJ	<	0.38	U
3-Nitrotoluene	-	0 / 7	<	U	0.06	0.21	0.52	<	0.1	0.24	0.49	U	<	0.084	0.20	0.41	UJ	<	0.38	U
4-Amino-2,6-dinitrotoluene	8.6	2 / 7	<	U	0.052	0.1	0.16	8.6	0.07	0.15	0.24		8.1	0.058	0.12	0.20		<	0.19	U
4-Nitrotoluene	-	0 / 7	<	U	0.092	0.21	0.52	<	0.24	0.49	1.2	U	<	0.20	0.41	1.0	UJ	<	0.95	U
HMX	10 J	2 / 7	<	U	0.038	0.1	0.16	0.4	0.11	0.24	0.49	J	<	0.089	0.20	0.41	U	<	0.38	U
MNX	73 J	1 / 7	<	U	0.029	0.1	0.52	<	0.44	0.44	2.4	U	73	0.36	0.36	2.0	J	<	1.9	U
Nitrobenzene	0.2 J	1 / 7	0.2	J	0.052	0.1	0.16	<	0.11	0.24	0.49	U	<	0.092	0.20	0.41	UJ	<	0.38	U
RDX	0.72 J	1 / 7	0.72	J	0.038	0.1	0.16	<	0.064	0.15	0.24	U	<	0.053	0.12	0.20	U	<	0.19	U
Tetryl	-	0 / 7	<	U	0.052	0.1	0.16	<	0.096	0.24	0.29	U	<	0.080	0.20	0.24	UJ	<	0.23	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-84
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0121-EXPLOSIVES

FIELD ID			G0121					G0121					G0121					G0121				
METHOD	Maximum	Detection	SW846 8330A					SW846 8330A					SW846 8330A					SW846 8330A				
COLLECT DATE	Detection	Frequency	5/24/2021					6/13/2020					6/7/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	1.4	1 / 6	<	UJ	0.083	0.2	0.21	<	U	0.091	0.22	0.23	<	U	0.2	0.39	0.98	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	0.57	1 / 6	<	UJ	0.036	0.099	0.11	<	U	0.04	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.05	0.1	0.15
2,4,6-Trinitrotoluene	2.8 J	1 / 6	<	UJ	0.045	0.099	0.11	<	U	0.049	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.05	0.1	0.15
2,4-Dinitrotoluene	-	0 / 6	<	UJ	0.027	0.079	0.1	<	U	0.03	0.086	0.11	<	U	0.082	0.2	0.39	<	U	0.05	0.1	0.13
2,6-Dinitrotoluene	-	0 / 6	<	UJ	0.04	0.079	0.1	<	U	0.043	0.086	0.11	<	U	0.063	0.2	0.2	<	U	0.05	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.91	3 / 6	<	UJ	0.05	0.099	0.11	0.91		0.055	0.11	0.12	0.19	J	0.05	0.12	0.2	0.5		0.03	0.1	0.15
2-Nitrotoluene	-	0 / 6	<	UJ	0.085	0.2	0.21	<	U	0.092	0.22	0.23	<	UJ	0.084	0.2	0.39	<	U	0.088	0.2	0.5
3-Nitrotoluene	-	0 / 6	<	UJ	0.19	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.057	0.2	0.5
4-Amino-2,6-dinitrotoluene	2.3 J	3 / 6	<	UJ	0.057	0.12	0.15	1.1		0.062	0.13	0.16	2.3	J	0.056	0.12	0.2	0.51		0.05	0.1	0.15
4-Nitrotoluene	-	0 / 6	<	UJ	0.099	0.4	0.41	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98	<	U	0.088	0.2	0.5
HMX	17	4 / 6	<	UJ	0.087	0.2	0.21	17		0.095	0.22	0.23	1.3	J	0.086	0.2	0.39	6.7	J	0.028	0.1	0.15
MNX	12 J	2 / 6	<	UJ	0.15	0.4	2	6.5	J	0.17	0.43	2.2	12	J	0.15	0.39	2	<	U	0.036	0.1	0.5
Nitrobenzene	-	0 / 6	<	UJ	0.09	0.2	0.21	<	U	0.098	0.22	0.23	<	U	0.089	0.2	0.39	<	U	0.05	0.1	0.15
RDX	13	5 / 6	<	UJ	0.051	0.2	0.21	13		0.056	0.22	0.23	1.6		0.15	0.39	0.39	1.7		0.036	0.1	0.15
Tetryl	-	0 / 6	<	UJ	0.031	0.099	0.11	<	U	0.034	0.11	0.12	<	U	0.078	0.2	0.23	<	U	0.05	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-84
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0121-EXPLOSIVES

FIELD ID			G0121					G0121				
METHOD	Maximum	Detection	SW846 8330A					SW846 8330A				
COLLECT DATE	Detection	Frequency	3/30/2017					11/30/2016				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual
EXPLOSIVES (µg/L)												
1,3,5-Trinitrobenzene	1.4	1 / 6	1.4		0.032	0.1	0.16	<	2.1	4.2	10	U
1,3-Dinitrobenzene	0.57	1 / 6	0.57		0.052	0.1	0.16	<	0.92	2.1	4.2	U
2,4,6-Trinitrotoluene	2.8 J	1 / 6	2.8	J	0.052	0.1	0.16	<	0.75	2.1	4.2	U
2,4-Dinitrotoluene	-	0 / 6	<	U	0.052	0.1	0.13	<	0.87	2.1	4.2	U
2,6-Dinitrotoluene	-	0 / 6	<	U	0.052	0.1	0.13	<	0.07	0.21	0.21	U
2-Amino-4,6-dinitrotoluene	0.91	3 / 6	<	U	0.031	0.1	0.16	<	0.53	1.3	2.1	U
2-Nitrotoluene	-	0 / 6	<	U	0.091	0.21	0.52	<	0.89	2.1	4.2	U
3-Nitrotoluene	-	0 / 6	<	U	0.059	0.21	0.52	<	0.09	0.21	0.42	U
4-Amino-2,6-dinitrotoluene	2.3 J	3 / 6	<	U	0.052	0.1	0.16	<	0.6	1.3	2.1	U
4-Nitrotoluene	-	0 / 6	<	U	0.091	0.21	0.52	<	2.1	4.2	10	U
HMX	17	4 / 6	<	U	0.037	0.1	0.16	14	0.91	2.1	4.2	J
MNX	12 J	2 / 6	<	U	0.029	0.1	0.52	<	0.37	0.37	2.1	U
Nitrobenzene	-	0 / 6	<	U	0.052	0.1	0.16	<	0.95	2.1	4.2	U
RDX	13	5 / 6	5.7	J	0.037	0.1	0.16	2.2	0.05	0.13	0.21	J
Tetryl	-	0 / 6	<	U	0.052	0.1	0.16	<	0.83	2.1	2.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-85
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0122-EXPLOSIVES

FIELD ID			G0122					G0122				
METHOD	Maximum	Detection	SW846 8330A					SW846 8330A				
COLLECT DATE	Detection	Frequency	5/23/2021					6/16/2020				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)												
1,3,5-Trinitrobenzene	2.4	1 / 2	<	U	0.083	0.2	0.21	2.4		0.089	0.21	0.22
1,3-Dinitrobenzene		0 / 2	<	U	0.036	0.098	0.11	<	U	0.039	0.11	0.12
2,4,6-Trinitrotoluene		0 / 2	<	U	0.044	0.098	0.11	<	U	0.048	0.11	0.12
2,4-Dinitrotoluene	-	0 / 2	<	U	0.027	0.079	0.1	<	U	0.029	0.085	0.11
2,6-Dinitrotoluene	-	0 / 2	<	U	0.039	0.079	0.1	<	U	0.042	0.085	0.11
2-Amino-4,6-dinitrotoluene		0 / 2	<	U	0.05	0.098	0.11	<	U	0.054	0.11	0.12
2-Nitrotoluene	-	0 / 2	<	UJ	0.084	0.2	0.21	<	U	0.09	0.21	0.22
3-Nitrotoluene	-	0 / 2	<	UJ	0.19	0.39	0.39	<	U	0.21	0.42	0.42
4-Amino-2,6-dinitrotoluene		0 / 2	<	U	0.057	0.12	0.15	<	U	0.061	0.13	0.16
4-Nitrotoluene	-	0 / 2	<	UJ	0.098	0.39	0.4	<	U	0.11	0.42	0.43
HMX	7.3	2 / 2	9.6	J	0.086	0.39	2	7.3		0.093	0.21	0.22
MNX	0.36 J	1 / 2	<	U	0.15	0.2	0.21	0.36	J	0.16	0.42	2.1
Nitrobenzene	-	0 / 2	<	U	0.09	0.2	0.21	<	U	0.096	0.21	0.22
RDX	12	2 / 2	82	J	0.51	2	2.1	12		0.054	0.21	0.22
Tetryl	-	0 / 2	<	U	0.031	0.098	0.11	<	U	0.034	0.11	0.12

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.1-86
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0123-EXPLOSIVES

FIELD ID			G0123					G0123				
METHOD	Maximum	Detection	SW846 8330A					SW846 8330A				
COLLECT DATE	Detection	Frequency	5/24/2021					6/16/2020				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)												
1,3,5-Trinitrobenzene		0 / 2	<	UJ	0.082	0.19	0.2	<	U	0.091	0.22	0.23
1,3-Dinitrobenzene		0 / 2	<	UJ	0.036	0.097	0.11	<	U	0.04	0.11	0.12
2,4,6-Trinitrotoluene		0 / 2	<	UJ	0.044	0.097	0.11	<	U	0.049	0.11	0.12
2,4-Dinitrotoluene		0 / 2	<	UJ	0.027	0.078	0.1	<	U	0.03	0.087	0.11
2,6-Dinitrotoluene		0 / 2	<	UJ	0.039	0.078	0.1	<	U	0.044	0.087	0.11
2-Amino-4,6-dinitrotoluene	1.6	1 / 2	<	UJ	0.049	0.097	0.11	1.6		0.055	0.11	0.12
2-Nitrotoluene		0 / 2	<	UJ	0.083	0.19	0.2	<	U	0.093	0.22	0.23
3-Nitrotoluene		0 / 2	<	UJ	0.19	0.39	0.39	<	U	0.21	0.43	0.43
4-Amino-2,6-dinitrotoluene	2.2	1 / 2	<	UJ	0.056	0.12	0.15	2.2		0.063	0.13	0.16
4-Nitrotoluene		0 / 2	<	UJ	0.097	0.39	0.4	<	U	0.11	0.43	0.45
HMX	62	2 / 2	19	J	0.085	0.19	0.2	62	J	1.9	4.3	4.6
MNX	5.9 J	1 / 2	<	UJ	0.15	0.39	1.9	5.9	J	0.17	0.43	2.2
Nitrobenzene		0 / 2	<	UJ	0.088	0.19	0.2	<	U	0.099	0.22	0.23
RDX	48	1 / 2	<	UJ	0.05	0.19	0.2	48	J	1.1	4.3	4.6
Tetryl		0 / 2	<	UJ	0.031	0.097	0.11	<	U	0.035	0.11	0.12

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantifications
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

E.1 Explosives

E.1.2 OU1 ON-POST PZ WELLS

WELL	TABLE
PZ001	E.1.2-1
PZ004	E.1.2-2
PZ005	E.1.2-3
PZ006	E.1.2-4
PZ007	E.1.2-5
PZ008	E.1.2-6
PZ009	E.1.2-7
PZ010	E.1.2-8
PZ011	E.1.2-9
PZ012	E.1.2-10
PZ013	E.1.2-11
PZ014	E.1.2-12
PZ015	E.1.2-13
PZ016	E.1.2-14
PZ017/PZ017R	E.1.2-15
PZ018	E.1.2-16
PZ019	E.1.2-17
PZ020	E.1.2-18

TABLE E.1.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-EXPLOSIVES

FIELD ID			PZ001					PZ001					PZ001					PZ001				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/10/2020					6/4/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.096 J	1 / 24	<	U	0.081	0.19	0.2	<	U	0.087	0.21	0.22	<	U	0.2	0.4	1	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 24	<	U	0.035	0.096	0.11	<	U	0.038	0.1	0.11	<	U	0.089	0.2	0.4	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.043	0.096	0.11	<	U	0.047	0.1	0.11	<	U	0.16	0.4	0.4	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	0.772 J	1 / 24	<	U	0.026	0.077	0.1	<	U	0.028	0.083	0.1	<	U	0.084	0.2	0.4	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 24	<	U	0.038	0.077	0.1	<	U	0.042	0.083	0.1	<	U	0.065	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.049	0.096	0.11	<	UJ	0.053	0.1	0.11	<	U	0.051	0.12	0.2	<	U	0.03	0.1	0.15
2-Nitrotoluene	-	0 / 24	<	UJ	0.082	0.19	0.2	<	U	0.089	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.089	0.2	0.51
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.38	0.38	<	U	0.2	0.41	0.41	<	U	0.2	0.4	0.4	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.055	0.12	0.14	<	U	0.06	0.12	0.16	<	U	0.058	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	0.11 J	1 / 24	<	UJ	0.096	0.38	0.39	0.11	J	0.1	0.41	0.43	<	UJ	0.2	0.4	1	<	U	0.089	0.2	0.51
HMX	0.49 J	9 / 24	0.3	J	0.084	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.16	0.4	2	0.25		0.028	0.1	0.15
MNX	-	0 / 18	<	U	0.15	0.38	1.9	<	U	0.16	0.41	2.1	<	U	0.088	0.2	0.4	<	U	0.036	0.1	0.51
Nitrobenzene	-	0 / 24	<	U	0.087	0.19	0.2	<	U	0.094	0.21	0.22	<	U	0.092	0.2	0.4	<	U	0.051	0.1	0.15
RDX	1.4	8 / 24	<	U	0.049	0.19	0.2	<	UJ	0.053	0.21	0.22	<	U	0.16	0.4	0.4	0.15		0.036	0.1	0.15
Tetryl	-	0 / 24	<	U	0.031	0.096	0.11	<	U	0.033	0.1	0.11	<	U	0.08	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-EXPLOSIVES

FIELD ID			PZ001					PZ001					PZ001					PZ001		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/4/2016					8/5/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.096 J	1 / 24	0.096	J	0.033	0.11	0.16	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.053	0.11	0.16	<	0.097	0.22	0.44	U	<	0.0	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.053	0.11	0.16	<	0.079	0.22	0.44	U	<	0.094	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	0.772 J	1 / 24	<	U	0.053	0.11	0.14	<	0.091	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.053	0.11	0.14	<	0.07	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.032	0.11	0.16	<	0.055	0.13	0.22	U	<	0.054	0.13	0.21	UJ	<	0.2	U
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.53	<	0.093	0.22	0.44	U	<	0.091	0.21	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 24	<	U	0.06	0.21	0.53	<	0.091	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.053	0.11	0.16	<	0.063	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	0.11 J	1 / 24	<	U	0.092	0.21	0.53	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
HMX	0.49 J	9 / 24	<	U	0.038	0.11	0.16	<	0.096	0.22	0.44	U	<	0.093	0.21	0.43	U	<	0.41	J
MNX	-	0 / 18	<	U	0.029	0.11	0.53	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 24	<	U	0.053	0.11	0.16	<	0.099	0.22	0.44	U	<	0.097	0.21	0.43	U	<	0.41	U
RDX	1.4	8 / 24	0.34		0.038	0.11	0.16	<	0.057	0.13	0.22	U	<	0.056	0.13	0.21	U	<	0.2	U
Tetryl	-	0 / 24	<	U	0.053	0.11	0.16	<	0.086	0.22	0.26	U	<	0.084	0.21	0.26	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-EXPLOSIVES

FIELD ID			PZ001			PZ001			PZ001			PZ001			PZ001			PZ001			PZ001		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009			3/17/2008			3/14/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.096 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U	<	0.48	U	<	0.49	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4-Dinitrotoluene	0.772 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Nitrotoluene	0.11 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U	<	0.48	U	<	0.49	U	<	0.49	U
HMX	0.49 J	9 / 24	0.2	0.8	J	0.28	0.8	J	0.2	0.8	J	0.3	0.4	J	<	0.48	U	<	0.49	U	<	0.49	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.49	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
RDX	1.4	8 / 24	<	0.8	U	0.55	0.8	J	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-EXPLOSIVES

FIELD ID			PZ001			PZ001			PZ001			PZ001			PZ001			PZ001			PZ001		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/22/2002			3/28/2001			3/15/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.096 J	1 / 24	<	0.48	U	<	0.48	U	<	0.28	U	<	0.24	U	<	0.44	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.28	U	<	0.24	U	<	0.29	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.28	U	<	0.24	U	<	0.37	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	0.772 J	1 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	0.29	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	1.1	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	0.46	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	0.90	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	0.57	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	0.77	U	<	0.8	U	<	1	U
4-Nitrotoluene	0.11 J	1 / 24	<	0.48	U	<	0.48	U	<	0.88	U	<	0.75	U	<	1.8	U	<	0.8	U	<	1.1	U
HMX	0.49 J	9 / 24	<	0.48	U	0.32	0.48	J	0.49	0.69	J	0.4	0.58	J	<	1.2	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.28	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.28	U	<	0.24	U	<	0.51	U	<	0.8	U	<	0.8	U
RDX	1.4	8 / 24	1	0.48		0.64	0.48		1.1	0.28		1.4	0.24		0.79	0.73		<	0.8	U	<	0.8	U
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.55	U	<	0.46	U	<	1.2	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-EXPLOSIVES

FIELD ID			PZ001			PZ001		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/29/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	0.096 J	1 / 24	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	0.772 J	1 / 24	<	0.8	U	0.772	0.500	J
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	0.11 J	1 / 24	<	0.8	U	<	1.00	UJ
HMX	0.49 J	9 / 24	<	0.8	U	<	0.500	UJ
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	UJ
RDX	1.4	8 / 24	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 24	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-EXPLOSIVES

FIELD ID			PZ004					PZ004					PZ004					PZ004				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/10/2020					6/4/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.083	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.2	0.4	1	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 24	<	U	0.036	0.098	0.11	<	U	0.038	0.1	0.11	<	U	0.089	0.2	0.4	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.044	0.098	0.11	<	U	0.047	0.1	0.11	<	U	0.16	0.4	0.4	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	0.854 J	1 / 24	<	U	0.027	0.079	0.1	<	U	0.029	0.083	0.1	<	U	0.085	0.2	0.4	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.039	0.079	0.1	<	U	0.042	0.083	0.1	<	U	0.065	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.05	0.098	0.11	<	U	0.053	0.1	0.11	<	U	0.051	0.12	0.2	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.084	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.086	0.2	0.4	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.39	0.39	<	U	0.2	0.42	0.42	<	U	0.2	0.4	0.4	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.057	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.058	0.12	0.2	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.098	0.39	0.4	<	U	0.1	0.42	0.43	<	UJ	0.2	0.4	1	<	U	0.091	0.21	0.52
HMX	-	0 / 24	<	U	0.086	0.2	0.21	<	U	0.091	0.21	0.22	<	U	0.16	0.4	2	<	U	0.029	0.1	0.16
MNX	-	0 / 18	<	U	0.15	0.39	2	<	U	0.16	0.42	2.1	<	U	0.088	0.2	0.4	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 24	<	U	0.09	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.092	0.2	0.4	<	U	0.052	0.1	0.16
RDX	0.45	3 / 24	<	U	0.051	0.2	0.21	<	U	0.21	0.22	0.05	<	U	0.16	0.4	0.4	<	U	0.037	0.1	0.16
Tetryl	-	0 / 24	<	U	0.031	0.098	0.11	<	U	0.1	0.11	0.03	<	U	0.08	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-EXPLOSIVES

FIELD ID			PZ004					PZ004					PZ004					PZ004		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/4/2016					8/5/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.052	0.1	0.15	<	0.098	0.22	0.44	U	<	0.094	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.15	<	0.08	0.22	0.44	U	<	0.077	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	0.854 J	1 / 24	<	U	0.052	0.1	0.13	<	0.092	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.13	<	0.071	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.031	0.1	0.15	<	0.056	0.13	0.22	U	<	0.054	0.13	0.21	U	<	0.2	U
2-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.094	0.22	0.44	U	<	0.091	0.21	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.092	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.15	<	0.064	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
HMX	-	0 / 24	<	U	0.037	0.1	0.15	<	0.097	0.22	0.44	U	<	0.093	0.21	0.43	U	<	0.41	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.4	0.4	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 24	<	U	0.052	0.1	0.15	<	0.1	0.22	0.44	U	<	0.097	0.21	0.43	U	<	0.41	U
RDX	0.45	3 / 24	<	U	0.037	0.1	0.15	<	0.058	0.13	0.22	U	<	0.056	0.13	0.21	U	<	0.2	U
Tetryl	-	0 / 24	<	U	0.052	0.1	0.15	<	0.087	0.22	0.26	U	<	0.084	0.21	0.26	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-EXPLOSIVES

FIELD ID			PZ004			PZ004			PZ004			PZ004			PZ004			PZ004			PZ004		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009			3/17/2008			3/14/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.5	U	<	0.51	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
2,4-Dinitrotoluene	0.854 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.51	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.51	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.51	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.5	U	<	0.51	U
HMX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.5	U	<	0.51	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.5	U	<	0.51	U
RDX	0.45	3 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.5	U	<	0.51	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.5	U	<	0.51	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-EXPLOSIVES

FIELD ID			PZ004			PZ004			PZ004			PZ004			PZ004			PZ004			PZ004		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/22/2002			3/30/2001			3/15/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.22	U	<	0.30	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.22	U	<	0.20	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.22	U	<	0.25	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	0.854 J	1 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.20	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.78	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.31	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.61	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.39	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.52	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.96	U	<	0.68	U	<	1.2	U	<	0.8	U	<	1.1	U
HMX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.75	U	<	0.53	U	<	0.85	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.31	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.31	U	<	0.22	U	<	0.35	U	<	0.8	U	<	0.8	U
RDX	0.45	3 / 24	<	0.48	U	0.3	0.48	J	0.45	0.31		0.32	0.22		<	0.50	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.42	U	<	0.82	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-EXPLOSIVES

FIELD ID			PZ004			PZ004		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/29/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	0.854 J	1 / 24	<	0.8	U	0.854	0.500	J
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
HMX	-	0 / 24	<	0.8	U	<	0.500	UJ
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	UJ
RDX	0.45	3 / 24	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 24	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-EXPLOSIVES

FIELD ID			PZ005					PZ005					PZ005					PZ005				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/11/2020					6/5/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 20	<	U	0.085	0.2	0.21	<	U	0.087	0.21	0.22	<	U	0.19	0.39	0.97	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 20	<	U	0.037	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.086	0.19	0.39	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	0.21 J	1 / 20	<	U	0.045	0.1	0.11	<	U	0.047	0.1	0.11	<	U	0.16	0.39	0.39	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 20	<	U	0.028	0.081	0.1	<	U	0.028	0.083	0.1	<	U	0.082	0.19	0.39	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 20	<	U	0.04	0.081	0.1	<	U	0.042	0.083	0.1	<	U	0.063	0.19	0.19	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.19 J	5 / 20	<	U	0.051	0.1	0.11	0.076	J	0.053	0.1	0.11	<	U	0.049	0.12	0.19	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 20	<	UJ	0.086	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.083	0.19	0.39	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 20	<	UJ	0.2	0.4	0.4	<	U	0.2	0.42	0.42	<	U	0.19	0.39	0.39	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	0.78	8 / 20	<	U	0.058	0.12	0.15	<	U	0.06	0.12	0.16	<	U	0.056	0.12	0.19	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 20	<	UJ	0.1	0.4	0.41	<	U	0.1	0.42	0.43	<	U	0.19	0.39	0.97	<	U	0.091	0.21	0.52
HMX	0.061 J	1 / 20	<	U	0.088	0.4	2	<	U	0.091	0.21	0.22	<	U	0.085	0.19	0.39	0.061	J	0.029	0.1	0.16
MNX	-	0 / 14	<	U	0.16	0.2	0.21	<	U	0.16	0.42	2.1	<	U	0.15	0.39	1.9	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 20	<	U	0.092	0.2	0.21	<	U	0.094	0.21	0.22	<	U	0.089	0.19	0.39	<	U	0.052	0.1	0.16
RDX	0.22 J	1 / 20	<	U	0.052	0.2	0.21	<	U	0.053	0.21	0.22	<	U	0.15	0.39	0.39	0.22	J	0.037	0.1	0.16
Tetryl	0.12 J	1 / 20	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.077	0.19	0.23	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-EXPLOSIVES

FIELD ID			PZ005					PZ005					PZ005					PZ005		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/23/2017					8/8/2016					8/5/2015					8/7/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 20	<	UJ	0.033	0.11	0.16	<	0.23	0.47	1.2	U	<	0.21	0.42	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 20	<	UJ	0.054	0.11	0.16	<	0.1	0.23	0.47	U	<	0.094	0.21	0.42	U	<	0.41	U
2,4,6-Trinitrotoluene	0.21 J	1 / 20	0.21	J	0.054	0.11	0.16	<	0.084	0.23	0.47	U	<	0.077	0.21	0.42	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 20	<	UJ	0.054	0.11	0.14	<	0.097	0.23	0.47	U	<	0.089	0.21	0.42	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 20	<	UJ	0.054	0.11	0.14	<	0.075	0.23	0.23	U	<	0.068	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.19 J	5 / 20	0.09	J	0.032	0.11	0.16	0.19	0.059	0.14	0.23	J	0.12	0.054	0.13	0.21	J	0.16	0.2	J
2-Nitrotoluene	-	0 / 20	<	UJ	0.094	0.21	0.54	<	0.099	0.23	0.47	U	<	0.090	0.21	0.42	U	<	0.41	U
3-Nitrotoluene	-	0 / 20	<	UJ	0.061	0.21	0.54	<	0.097	0.23	0.47	U	<	0.088	0.21	0.42	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	0.78	8 / 20	0.62	J	0.054	0.11	0.16	<	0.067	0.14	0.23	U	0.14	0.061	0.13	0.21	J	0.1	0.2	J
4-Nitrotoluene	-	0 / 20	<	UJ	0.094	0.21	0.54	<	0.23	0.47	1.2	U	<	0.21	0.21	1.1	U	<	1	U
HMX	0.061 J	1 / 20	<	UJ	0.039	0.11	0.16	<	0.1	0.23	0.47	U	<	0.093	0.21	0.42	U	<	0.41	U
MNX	-	0 / 14	<	UJ	0.03	0.11	0.54	<	0.42	0.42	2.3	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 20	<	UJ	0.054	0.11	0.16	<	0.11	0.23	0.47	U	<	0.096	0.21	0.42	U	<	0.41	U
RDX	0.22 J	1 / 20	<	UJ	0.039	0.11	0.16	<	0.061	0.14	0.23	U	<	0.055	0.13	0.21	U	<	0.2	U
Tetryl	0.12 J	1 / 20	0.12	J	0.054	0.11	0.16	<	0.092	0.23	0.28	U	<	0.084	0.21	0.25	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-EXPLOSIVES

FIELD ID			PZ005			PZ005			PZ005			PZ005			PZ005			PZ005			PZ005		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/8/2013			None			3/13/2008			3/13/2007			3/29/2006			3/18/2005			3/23/2004		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.29	U
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U				<	0.48	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.29	U
2,4,6-Trinitrotoluene	0.21 J	1 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.57	U
2,6-Dinitrotoluene	-	0 / 20	<	0.8	U	**Not Sampled**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.57	U
2-Amino-4,6-dinitrotoluene	0.19 J	5 / 20	<	0.8	U	**in 2009, 2010, 2011,**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.57	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	**2012**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.57	U
3-Nitrotoluene	-	0 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.57	U
4-Amino-2,6-dinitrotoluene	0.78	8 / 20	<	1.4	U				<	0.48	U	0.71	0.49		0.78	0.48		0.39	0.48	J	<	0.57	U
4-Nitrotoluene	-	0 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.92	U
HMX	0.061 J	1 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.72	U
MNX	-	0 / 14	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.29	U
Nitrobenzene	-	0 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.29	U
RDX	0.22 J	1 / 20	<	0.8	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.29	U
Tetryl	0.12 J	1 / 20	<	1.6	U				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.57	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-EXPLOSIVES

FIELD ID			PZ005			PZ005			PZ005			PZ005			PZ005			PZ005		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/21/2003			3/21/2002			3/28/2001			3/17/2000			3/30/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 20	<	0.21	U	<	0.24	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 20	<	0.21	U	<	0.16	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	0.21 J	1 / 20	<	0.21	U	<	0.20	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	-	0 / 20	<	0.4	U	<	0.16	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 20	<	0.4	U	<	0.62	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	0.19 J	5 / 20	<	0.4	U	<	0.25	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 20	<	0.4	U	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 20	<	0.4	U	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	0.78	8 / 20	0.19	0.4	J	0.22	0.42	J	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 20	<	0.64	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	0.061 J	1 / 20	<	0.5	U	<	0.68	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ
MNX	-	0 / 14		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.21	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	0.22 J	1 / 20	<	0.21	U	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
Tetryl	0.12 J	1 / 20	<	0.4	U	<	0.66	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-4
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ006-EXPLOSIVES

FIELD ID			PZ006			PZ006			PZ006			PZ006			PZ006			PZ006			PZ006		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/13/2008			3/13/2007			3/29/2006			3/18/2005			3/23/2004			3/20/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.28	U	<	0.21	U
1,3-Dinitrobenzene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.4	U	<	0.28	U	<	0.21	U
2,4,6-Trinitrotoluene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.28	U	<	0.21	U
2,4-Dinitrotoluene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 11	**Abandoned**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U
2-Amino-4,6-dinitrotoluene	-	0 / 11	**2009**			<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U
2-Nitrotoluene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U
3-Nitrotoluene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U
4-Nitrotoluene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.87	U	<	0.66	U
HMX	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.68	U	<	0.51	U
MNX	-	0 / 5				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.28	U		NA	
Nitrobenzene	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.28	U	<	0.21	U
RDX	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.28	U	<	0.21	U
Tetryl	-	0 / 11				<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.54	U	<	0.41	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-4
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ006-EXPLOSIVES

FIELD ID			PZ006			PZ006			PZ006			PZ006			PZ006		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/21/2002			3/28/2001			3/17/2000			3/30/1999			6/24/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 11	<	0.34	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 11	<	0.23	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 11	<	0.34	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	-	0 / 11	<	0.23	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 11	<	0.89	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 11	<	0.36	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 11	<	0.70	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 11	<	0.44	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 11	<	0.60	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 11	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	-	0 / 11	<	0.97	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ
MNX	-	0 / 5		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 11	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	-	0 / 11	<	0.57	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 11	<	0.95	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-EXPLOSIVES

FIELD ID			PZ007					PZ007					PZ007					PZ007				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/11/2020					6/5/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.047 J	1 / 24	<	U	0.085	0.2	0.21	<	U	0.089	0.21	0.22	<	U	0.21	0.42	1.1	<	UJ	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 24	<	U	0.037	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.094	0.21	0.42	<	UJ	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.045	0.1	0.11	<	U	0.048	0.11	0.12	<	U	0.17	0.42	0.42	<	UJ	0.051	0.1	0.13
2,4-Dinitrotoluene	-	0 / 24	<	U	0.028	0.081	0.1	<	U	0.029	0.085	0.11	<	U	0.089	0.21	0.42	<	UJ	0.051	0.1	0.15
2,6-Dinitrotoluene	-	0 / 24	<	U	0.04	0.081	0.1	<	U	0.043	0.085	0.11	<	U	0.069	0.21	0.21	<	UJ	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	0.12 J	2 / 24	<	U	0.051	0.1	0.11	<	U	0.054	0.11	0.12	<	U	0.054	0.13	0.21	<	UJ	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 24	<	UJ	0.086	0.2	0.21	<	U	0.091	0.21	0.22	<	UJ	0.091	0.21	0.42	<	UJ	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 24	<	UJ	0.2	0.4	0.4	<	U	0.21	0.43	0.43	<	UJ	0.21	0.42	0.42	<	UJ	0.058	0.2	0.15
4-Amino-2,6-dinitrotoluene	0.23 J	2 / 24	<	U	0.058	0.12	0.15	<	U	0.061	0.13	0.16	<	U	0.061	0.13	0.21	<	UJ	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	UJ	0.1	0.4	0.41	<	U	0.11	0.43	0.44	<	U	0.21	0.42	1.1	<	UJ	0.09	0.2	0.15
HMX	-	0 / 24	<	U	0.088	0.2	0.21	<	U	0.093	0.21	0.22	<	U	0.093	0.21	0.42	<	UJ	0.029	0.1	0.51
MNX	-	0 / 18	<	U	0.16	0.4	2	<	U	0.16	0.43	2.1	<	U	0.16	0.42	2.1	<	UJ	0.037	0.1	0.51
Nitrobenzene	-	0 / 24	<	U	0.092	0.2	0.21	<	U	0.097	0.21	0.22	<	U	0.097	0.21	0.42	<	UJ	0.051	0.1	0.51
RDX	-	0 / 24	<	U	0.052	0.2	0.21	<	U	0.055	0.21	0.22	<	U	0.17	0.42	0.42	<	UJ	0.037	0.1	0.15
Tetryl	-	0 / 24	<	U	0.032	0.1	0.11	<	UJ	0.034	0.11	0.12	<	U	0.084	0.21	0.25	<	UJ	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-EXPLOSIVES

FIELD ID			PZ007					PZ007					PZ007					PZ007		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/27/2017					8/4/2016					8/5/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.047 J	1 / 24	0.047	J	0.033	0.1	0.16	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.097	0.22	0.44	U	<	0.094	0.21	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.079	0.22	0.44	U	<	0.077	0.21	0.43	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.092	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.071	0.22	0.22	U	<	0.069	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.12 J	2 / 24	<	U	0.031	0.1	0.16	<	0.056	0.13	0.22	U	<	0.054	0.13	0.21	U	<	0.2	U
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.094	0.22	0.44	U	<	0.091	0.21	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 24	<	U	0.06	0.21	0.52	<	0.091	0.22	0.44	U	<	0.089	0.21	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	0.23 J	2 / 24	<	U	0.052	0.1	0.16	<	0.063	0.13	0.22	U	<	0.061	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.22	0.44	1.1	U	<	0.21	0.43	1.1	U	<	1	U
HMX	-	0 / 24	<	U	0.038	0.1	0.16	<	0.096	0.22	0.44	U	<	0.093	0.21	0.43	U	<	0.41	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.1	0.22	0.44	U	<	0.097	0.21	0.43	U	<	0.41	U
RDX	-	0 / 24	<	U	0.038	0.1	0.16	<	0.057	0.13	0.22	U	<	0.056	0.13	0.21	U	<	0.2	U
Tetryl	-	0 / 24	<	U	0.052	0.1	0.16	<	0.087	0.22	0.26	U	<	0.084	0.21	0.26	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-EXPLOSIVES

FIELD ID			PZ007			PZ007			PZ007			PZ007			PZ007			PZ007			PZ007		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/12/2013			3/7/2012			3/9/2011			3/12/2010			3/11/2009			3/14/2008			3/15/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.047 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	0.12 J	2 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	0.23 J	2 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U
HMX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
RDX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-EXPLOSIVES

FIELD ID			PZ007			PZ007			PZ007			PZ007			PZ007			PZ007			PZ007		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2006			3/17/2005			3/23/2004			3/19/2003			3/26/2002			3/27/2001			3/20/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.047 J	1 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.35	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.23	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.29	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.23	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.90	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.12 J	2 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	0.12	0.36	J	0.11	0.8	J	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.71	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.45	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	0.23 J	2 / 24	<	0.48	U	<	0.48	U	<	0.41	U	0.16	0.31	J	<	0.61	U	0.23	0.8	J	<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.67	U	<	0.5	U	<	1.5	U	<	0.8	U	<	1.1	U
HMX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.52	U	<	0.39	U	<	0.99	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.21	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.41	U	<	0.8	U	<	0.8	U
RDX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.58	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.96	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-EXPLOSIVES

FIELD ID			PZ007			PZ007		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/30/1999			6/23/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	0.047 J	1 / 24	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	0.12 J	2 / 24	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	0.23 J	2 / 24	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	UJ
HMX	-	0 / 24	<	0.8	U	<	0.500	UJ
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	UJ
RDX	-	0 / 24	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 24	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-6
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ008-EXPLOSIVES

FIELD ID			PZ008			PZ008			PZ008			PZ008			PZ008			PZ008			PZ008		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/14/2008			3/15/2007			3/28/2006			3/17/2005			3/23/2004			3/19/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.27	U	<	0.29	U
1,3-Dinitrobenzene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.4	U	<	0.27	U	<	0.29	U
2,4,6-Trinitrotoluene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.27	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U
2,6-Dinitrotoluene	-	0 / 11	**Abandoned**			<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U
2-Amino-4,6-dinitrotoluene	-	0 / 11	**2009**			<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U
2-Nitrotoluene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U
3-Nitrotoluene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U
4-Amino-2,6-dinitrotoluene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U
4-Nitrotoluene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.84	U	<	0.9	U
HMX	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.66	U	<	0.7	U
MNX	-	0 / 5				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.27	U		NA	
Nitrobenzene	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.27	U	<	0.29	U
RDX	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.27	U	<	0.29	U
Tetryl	-	0 / 11				<	0.49	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.56	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-6
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ008-EXPLOSIVES

FIELD ID			PZ008			PZ008			PZ008			PZ008			PZ008		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/25/2002			3/27/2001			3/20/2000			3/30/1999			6/23/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 11	<	0.30	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 11	<	0.20	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 11	<	0.25	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ
2,4-Dinitrotoluene	-	0 / 11	<	0.20	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 11	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 11	<	0.31	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 11	<	0.61	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 11	<	0.39	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 11	<	0.52	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 11	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	-	0 / 11	<	0.85	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ
MNX	-	0 / 5		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 11	<	0.35	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	-	0 / 11	<	0.50	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 11	<	0.82	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-EXPLOSIVES

FIELD ID			PZ009					PZ009					PZ009					PZ009				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/10/2020					6/5/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	19.6	23 / 24	1.5		0.08	0.19	0.2	1.4		0.09	0.21	0.22	1.2		0.2	0.4	1	1.5	J	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 24	<	U	0.035	0.095	0.1	<	U	0.039	0.11	0.12	<	U	0.089	0.2	0.4	<	UJ	0.051	0.1	0.15
2,4,6-Trinitrotoluene	19.9	22 / 24	0.78		0.043	0.095	0.1	0.71		0.048	0.11	0.12	0.55		0.16	0.4	0.4	0.77	J	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 24	<	U	0.026	0.076	0.1	<	U	0.029	0.085	0.11	<	U	0.084	0.2	0.4	<	UJ	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 24	<	U	0.038	0.076	0.1	<	U	0.043	0.085	0.11	<	U	0.065	0.2	0.2	<	UJ	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	4.15	24 / 24	0.74	J	0.048	0.095	0.1	0.66		0.054	0.11	0.12	0.71		0.051	0.12	0.2	1.2	J	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 24	<	UJ	0.082	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.086	0.2	0.4	<	UJ	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	U	0.2	0.4	0.4	<	UJ	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	3.57	21 / 24	0.72		0.055	0.11	0.14	0.57		0.061	0.13	0.16	0.5		0.058	0.12	0.2	0.93	J	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	UJ	0.095	0.38	0.39	<	U	0.11	0.43	0.44	<	U	0.2	0.4	1	<	UJ	0.09	0.2	0.51
HMX	-	0 / 24	<	U	0.084	0.19	0.2	<	U	0.093	0.21	0.22	<	U	0.088	0.2	0.4	<	UJ	0.029	0.1	0.15
MNX	-	0 / 18	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1	<	U	0.15	0.4	2	<	UJ	0.037	0.1	0.51
Nitrobenzene	-	0 / 24	<	U	0.087	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.091	0.2	0.4	<	UJ	0.051	0.1	0.15
RDX	1.07	3 / 24	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22	<	U	0.16	0.4	0.4	<	UJ	0.037	0.1	0.15
Tetryl	-	0 / 24	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12	<	U	0.079	0.2	0.24	<	UJ	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-EXPLOSIVES

FIELD ID			PZ009					PZ009					PZ009					PZ009		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/8/2016					8/6/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	19.6	23 / 24	2		0.032	0.1	0.16	1.3	0.25	0.5	1.3		2.3	0.22	0.43	1.1		2.3	1.1	
1,3-Dinitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.11	0.25	0.5	U	<	0.096	0.22	0.43	U	<	0.42	U
2,4,6-Trinitrotoluene	19.9	22 / 24	1		0.052	0.1	0.16	0.61	0.091	0.25	0.5		1.4	0.078	0.22	0.43		0.9	0.42	
2,4-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.1	0.25	0.5	U	<	0.091	0.22	0.43	U	<	0.42	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.081	0.25	0.25	U	<	0.070	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	4.15	24 / 24	1.1		0.031	0.1	0.16	0.49	0.063	0.15	0.25		0.89	0.055	0.13	0.22	J	1.6	0.21	J
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.11	0.25	0.5	U	<	0.093	0.21	0.43	U	<	0.42	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.1	0.25	0.5	U	<	0.090	0.21	0.43	U	<	0.42	U
4-Amino-2,6-dinitrotoluene	3.57	21 / 24	0.78		0.052	0.1	0.16	0.44	0.072	0.15	0.25		0.82	0.063	0.13	0.22	J	1.1	0.21	
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.25	0.5	1.3	U	<	0.22	0.22	1.1	U	<	1.1	U
HMX	-	0 / 24	<	U	0.038	0.1	0.16	<	0.11	0.25	0.5	U	<	0.095	0.22	0.43	U	<	0.42	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.45	0.45	2.5	U	<	0.39	0.38	2.2	U	<	2.1	U
Nitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.11	0.25	0.5	U	<	0.099	0.22	0.43	U	<	0.42	U
RDX	1.07	3 / 24	<	U	0.038	0.1	0.16	<	0.065	0.15	0.25	U	<	0.057	0.13	0.22	U	<	0.21	U
Tetryl	-	0 / 24	<	U	0.052	0.1	0.16	<	0.099	0.25	0.3	U	<	0.09	0.22	0.26	U	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-EXPLOSIVES

FIELD ID			PZ009			PZ009			PZ009			PZ009			PZ009			PZ009			PZ009		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2013			3/9/2012			3/10/2011			3/16/2010			3/12/2009			3/17/2008			3/16/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	19.6	23 / 24	2.5	0.8	J	1.8	0.8		1.1	0.8		1.4	1		1.4	0.48		1.7	0.49		2.5	0.49	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4,6-Trinitrotoluene	19.9	22 / 24	1.1	0.8	J	0.61	0.8	J	<	0.8	U	0.75	0.4		0.96	0.48		0.93	0.49		<	0.49	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	4.15	24 / 24	1.8	0.8	J	1.1	0.8		0.85	0.8		1.3	0.2		1.3	0.48		1.1	0.49		0.63	0.49	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	3.57	21 / 24	1.3	1.4	J	<	1.4	U	<	0.8	U	0.64	0.2		0.84	0.48		0.74	0.49		<	0.49	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.49	U
HMX	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.49	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
RDX	1.07	3 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-EXPLOSIVES

FIELD ID			PZ009			PZ009			PZ009			PZ009			PZ009			PZ009			PZ009		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2006			3/16/2005			3/18/2004			3/20/2003			3/25/2002			3/26/2001			3/20/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	19.6	23 / 24	3.5	0.48		4.6	0.48		8.1	0.18		<	0.16	U	8.9	1.4	J	14	0.8		14	0.8	
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.18	UJ	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	19.9	22 / 24	1.1	0.48		1.2	0.48		2.1	0.18		4.5	0.16		4.4	0.23	J	9.3	0.8		11	1.5	
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.18	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.71	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	4.15	24 / 24	2.6	0.48		1.6	0.48	P	2.4	0.35		3.3	0.31		2.8	0.29	J	3	0.8		2.1	1	
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.56	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.36	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	3.57	21 / 24	1.1	0.48		0.86	0.48		1.2	0.35		1.9	0.31		1.5	0.48	J	1.8	0.8		1.1	1	
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.57	U	<	0.5	U	<	1.2	U	<	0.8	U	<	1.1	U
HMX	-	0 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	0.78	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.18	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.32	U	<	0.8	U	<	0.8	U
RDX	1.07	3 / 24	<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.46	U	0.22	0.8	J	<	0.8	U
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.76	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-EXPLOSIVES

FIELD ID			PZ009			PZ009		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	19.6	23 / 24	18.3	1.6		19.6	1.00	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	19.9	22 / 24	19.9	1.6		19.4	1.00	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	4.15	24 / 24	3.67	0.8		4.15	0.500	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	3.57	21 / 24	2.33	0.8		3.57	1.00	J*
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
HMX	-	0 / 24	<	0.8	U	<	0.500	U
MNX	-	0 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
RDX	1.07	3 / 24	0.594	0.8	J	1.07	1.00	
Tetryl	-	0 / 24	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-EXPLOSIVES

FIELD ID			PZ010					PZ010					PZ010					PZ010				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/10/2020					6/6/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	91	11 / 24	<	U	0.081	0.19	0.2	<	U	0.086	0.2	0.21	<	U	0.21	0.41	1	<	UJ	0.033	0.11	0.14
1,3-Dinitrobenzene	-	0 / 24	<	U	0.035	0.096	0.11	<	U	0.038	0.1	0.11	<	U	0.091	0.21	0.41	<	UJ	0.053	0.11	0.16
2,4,6-Trinitrotoluene	125	12 / 24	<	U	0.043	0.096	0.11	<	U	0.046	0.1	0.11	<	U	0.16	0.41	0.41	<	UJ	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 24	<	U	0.026	0.077	0.1	<	U	0.028	0.082	0.1	<	U	0.086	0.21	0.41	<	UJ	0.053	0.11	0.16
2,6-Dinitrotoluene	-	0 / 24	<	U	0.038	0.077	0.1	<	U	0.041	0.082	0.1	<	U	0.066	0.21	0.21	<	UJ	0.053	0.11	0.53
2-Amino-4,6-dinitrotoluene	9.84	16 / 24	<	U	0.049	0.096	0.11	0.42	J	0.052	0.1	0.11	<	U	0.052	0.12	0.21	0.27	J	0.032	0.11	0.14
2-Nitrotoluene	-	0 / 24	<	UJ	0.082	0.19	0.2	<	U	0.087	0.2	0.21	<	UJ	0.088	0.21	0.41	<	UJ	0.093	0.21	0.16
3-Nitrotoluene	0.68 J	1 / 24	<	UJ	0.19	0.38	0.38	<	U	0.2	0.41	0.41	<	UJ	0.2	0.41	0.41	<	UJ	0.06	0.21	0.16
4-Amino-2,6-dinitrotoluene	7.9 J	14 / 24	1.5	J	0.055	0.12	0.14	<	U	0.059	0.12	0.15	<	UJ	0.059	0.12	0.21	0.57	J	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.096	0.38	0.39	<	U	0.1	0.41	0.42	<	UJ	0.21	0.41	1	<	UJ	0.093	0.21	0.53
HMX	0.97 J	1 / 24	<	U	0.084	0.19	0.2	<	U	0.09	0.2	0.21	<	U	0.09	0.21	0.41	<	UJ	0.03	0.11	0.53
MNX	21 J	2 / 18	<	U	0.15	0.38	1.9	<	U	0.16	0.41	2	<	U	0.16	0.41	2.1	<	UJ	0.038	0.11	0.53
Nitrobenzene	-	0 / 24	<	U	0.087	0.19	0.2	<	U	0.093	0.2	0.21	<	U	0.093	0.21	0.41	<	UJ	0.053	0.11	0.16
RDX	1.4	4 / 24	<	U	0.049	0.19	0.2	<	U	0.053	0.2	0.21	<	U	0.16	0.41	0.41	<	UJ	0.038	0.11	0.16
Tetryl	0.94 J	1 / 24	<	U	0.031	0.096	0.11	<	U	0.033	0.1	0.11	0.94	J	0.081	0.21	0.25	<	UJ	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-EXPLOSIVES

FIELD ID			PZ010					PZ010					PZ010					PZ010		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/6/2016					8/6/2015					8/13/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	91	11 / 24	<	UJ	0.032	0.1	0.16	<	0.23	0.46	1.2	U	<	0.21	0.42	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	UJ	0.052	0.1	0.16	<	0.1	0.23	0.46	U	<	0.094	0.21	0.42	U	<	0.4	U
2,4,6-Trinitrotoluene	125	12 / 24	<	UJ	0.052	0.1	0.16	<	0.084	0.23	0.46	U	<	0.077	0.21	0.42	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 24	<	UJ	0.052	0.1	0.14	<	0.097	0.23	0.46	U	<	0.089	0.21	0.42	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 24	<	UJ	0.052	0.1	0.14	<	0.075	0.23	0.23	U	<	0.069	0.21	0.21	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	9.84	16 / 24	<	UJ	0.031	0.1	0.16	<	0.059	0.14	0.23	U	0.13	0.054	0.13	0.21	J	<	0.2	U
2-Nitrotoluene	-	0 / 24	<	UJ	0.092	0.21	0.52	<	0.099	0.23	0.46	U	<	0.091	0.21	0.42	U	<	0.4	U
3-Nitrotoluene	0.68 J	1 / 24	<	UJ	0.06	0.21	0.52	<	0.097	0.23	0.46	U	<	0.089	0.21	0.42	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	7.9 J	14 / 24	0.13	J	0.052	0.1	0.16	<	0.067	0.14	0.23	U	<	0.061	0.13	0.21	U	<	0.2	U
4-Nitrotoluene	-	0 / 24	<	UJ	0.092	0.21	0.52	<	0.23	0.46	1.2	U	<	0.21	0.42	1.1	U	<	1	U
HMX	0.97 J	1 / 24	0.97	J	0.038	0.1	0.16	<	0.1	0.23	0.46	U	<	0.093	0.21	0.42	U	<	0.4	U
MNX	21 J	2 / 18	0.47	J	0.029	0.1	0.52	<	0.42	0.42	2.3	U	<	0.38	0.38	2.1	U	<	2	U
Nitrobenzene	-	0 / 24	<	UJ	0.052	0.1	0.16	<	0.11	0.23	0.46	U	<	0.097	0.21	0.42	U	<	0.4	U
RDX	1.4	4 / 24	0.26	J	0.038	0.1	0.16	<	0.061	0.14	0.23	U	<	0.056	0.13	0.21	U	<	0.2	U
Tetryl	0.94 J	1 / 24	<	UJ	0.052	0.1	0.16	<	0.092	0.23	0.28	U	<	0.084	0.21	0.25	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-EXPLOSIVES

FIELD ID			PZ010			PZ010			PZ010			PZ010			PZ010			PZ010			PZ010		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/9/2012			3/10/2011			3/16/2010			3/12/2009			3/17/2008			3/16/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	91	11 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	28	0.49		40	0.49		35	0.5	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U	<	0.49	U	<	0.5	U
2,4,6-Trinitrotoluene	125	12 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	6	0.49		8	0.49		3.2	0.5	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U	<	0.49	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U	<	0.49	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	9.84	16 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.63	0.2	J	1.5	0.49		1.8	0.49		1.4	0.5	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U	<	0.49	U	<	0.5	U
3-Nitrotoluene	0.68 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.68	0.4	J	<	0.49	U	<	0.49	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	7.9 J	14 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	1.5	0.49		1.4	0.49		0.78	0.5	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U	<	0.49	U	<	0.5	U
HMX	0.97 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U	<	0.49	U	<	0.5	U
MNX	21 J	2 / 18	<	0.8	U	<	0.8	U	<	0.8	U	21	2	J	<	0.49	U	<	0.49	U	<	0.5	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U	<	0.49	U	<	0.5	U
RDX	1.4	4 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U	<	0.49	U	<	0.5	U
Tetryl	0.94 J	1 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.49	U	<	0.49	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-EXPLOSIVES

FIELD ID			PZ010			PZ010			PZ010			PZ010			PZ010			PZ010			PZ010		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/25/2002			3/26/2001			3/20/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	91	11 / 24	52	4.9		54	2.4		59	1.9		<	0.21	U	54	1.9	J	74	8		91	16	
1,3-Dinitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.19	U	<	0.21	U	<	0.26	UJ	<	1.6	U	<	0.8	U
2,4,6-Trinitrotoluene	125	12 / 24	9.7	0.49		10	0.48		13	1.9		18	2.1	J	19	1.6	J	32	1.6		38	30	
2,4-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.37	U	<	0.41	U	<	0.26	U	<	1.6	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.37	U	<	0.41	U	<	0.99	U	<	1.6	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	9.84	16 / 24	3.2	0.49		2.4	0.48	P	2.7	0.37		3.9	0.41	J	3.3	0.40	J	3.6	1.6		4.8	1	
2-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.37	U	<	0.41	U	<	0.78	U	<	1.6	U	<	1.1	U
3-Nitrotoluene	0.68 J	1 / 24	<	0.49	U	<	0.48	U	<	0.37	U	<	0.41	U	<	0.50	U	<	1.6	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	7.9 J	14 / 24	2.1	0.49		1.6	0.48		1.5	0.37		3	0.41	J	7.9	0.67	J	1.7	1.6		3	1	
4-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.6	U	<	0.67	U	<	1.6	U	<	1.6	U	<	1.1	U
HMX	0.97 J	1 / 24	<	0.49	U	<	0.48	U	<	0.47	U	<	0.52	U	<	1.1	U	<	2	U	<	0.8	U
MNX	21 J	2 / 18	<	0.49	U	<	0.48	U	<	0.19	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.19	U	<	0.21	U	<	0.45	U	<	1.6	U	<	0.8	U
RDX	1.4	4 / 24	<	0.49	U	<	0.48	U	<	0.19	U	0.64	0.21	J	<	0.64	U	0.9	1.6	J	1.4	0.8	
Tetryl	0.94 J	1 / 24	<	0.49	U	<	0.48	U	<	0.37	U	<	0.41	U	<	1.1	U	<	1.6	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-EXPLOSIVES

FIELD ID			PZ010			PZ010		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	91	11 / 24	61.8	8		79.6	10.00	
1,3-Dinitrobenzene	-	0 / 24	<	4	U	<	0.500	U
2,4,6-Trinitrotoluene	125	12 / 24	66.6	8		125	10.00	
2,4-Dinitrotoluene	-	0 / 24	<	4	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	4	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	9.84	16 / 24	7.63	4		9.84	0.500	
2-Nitrotoluene	-	0 / 24	<	4	U	<	1.00	U
3-Nitrotoluene	0.68 J	1 / 24	<	4	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	7.9 J	14 / 24	<	4	U	4.74	1.00	
4-Nitrotoluene	-	0 / 24	<	4	U	<	1.00	U
HMX	0.97 J	1 / 24	<	4	U	<	0.500	U
MNX	21 J	2 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	4	U	<	0.500	U
RDX	1.4	4 / 24	<	4	U	<	1.00	U
Tetryl	0.94 J	1 / 24	<	4	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-EXPLOSIVES

FIELD ID			PZ011					PZ011					PZ011					PZ011				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/10/2020					6/7/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	420	17 / 24	<	U	0.083	0.2	0.21	<	U	0.086	0.21	0.22	<	U	0.2	0.41	1	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	0.53	4 / 24	<	U	0.036	0.099	0.11	<	U	0.038	0.1	0.11	<	U	0.091	0.2	0.41	0.24	J	0.053	0.11	0.16
2,4,6-Trinitrotoluene	1200	18 / 24	<	U	0.044	0.099	0.11	<	U	0.046	0.1	0.11	<	U	0.16	0.41	0.41	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	4.17 J	7 / 24	<	U	0.027	0.079	0.1	<	U	0.028	0.082	0.1	<	U	0.086	0.2	0.41	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.04	0.079	0.1	<	U	0.041	0.082	0.1	<	U	0.066	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	67.9	20 / 24	<	U	0.05	0.099	0.11	0.19	J	0.052	0.1	0.11	<	U	0.052	0.12	0.2	<	U	0.032	0.11	0.16
2-Nitrotoluene	1.1 J	1 / 24	<	UJ	0.084	0.2	0.21	<	U	0.088	0.21	0.22	<	UJ	0.087	0.2	0.41	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.39	0.39	<	U	0.2	0.41	0.41	<	U	0.2	0.41	0.41	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	100 J	19 / 24	0.27	J	0.057	0.12	0.15	<	U	0.059	0.12	0.15	<	U	0.059	0.12	0.2	<	U	0.053	0.11	0.16
4-Nitrotoluene	0.11 J	1 / 24	<	UJ	0.099	0.39	0.4	<	U	0.1	0.41	0.42	<	U	0.2	0.41	1	<	U	0.093	0.21	0.53
HMX	6.6	11 / 24	<	U	0.086	0.2	0.21	<	U	0.09	0.21	0.22	<	U	0.089	0.2	0.41	<	U	0.03	0.11	0.16
MNX	0.13 J	1 / 18	<	U	0.15	0.39	2	<	U	0.16	0.41	2.1	<	U	0.16	0.41	2	<	U	0.038	0.11	0.53
Nitrobenzene	24	2 / 24	<	U	0.09	0.2	0.21	<	U	0.094	0.21	0.22	<	U	0.093	0.2	0.41	<	U	0.053	0.11	0.16
RDX	58 J	18 / 24	<	U	0.051	0.2	0.21	<	U	0.053	0.21	0.22	<	U	0.16	0.41	0.41	0.31		0.038	0.11	0.16
Tetryl	17 J	2 / 24	<	U	0.031	0.099	0.11	<	U	0.033	0.1	0.11	17	J	0.081	0.2	0.24	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-EXPLOSIVES

FIELD ID			PZ011					PZ011					PZ011					PZ011		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/24/2017					8/8/2016					8/10/2015					8/19/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	420	17 / 24	<	U	0.032	0.1	0.15	<	1.1	2.2	5.5	U	0.38	0.20	0.41	1.0	J	0.87	1	J
1,3-Dinitrobenzene	0.53	4 / 24	<	U	0.051	0.1	0.15	<	0.49	1.1	2.2	U	<	0.090	0.20	0.41	UJ	<	0.4	U
2,4,6-Trinitrotoluene	1200	18 / 24	<	U	0.051	0.1	0.15	<	0.4	1.1	2.2	U	1.5	0.073	0.20	0.41	J	0.79	0.4	
2,4-Dinitrotoluene	4.17 J	7 / 24	<	U	0.051	0.1	0.13	<	0.46	1.1	2.2	U	<	0.085	0.20	0.41	UJ	<	0.4	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.051	0.1	0.13	<	0.36	1.1	1.1	U	<	0.065	0.20	2.0	UJ	<	0.2	U
2-Amino-4,6-dinitrotoluene	67.9	20 / 24	0.49		0.031	0.1	0.15	<	0.28	0.66	1.1	U	3.2	0.051	0.12	2.0	J	1.5	0.2	
2-Nitrotoluene	1.1 J	1 / 24	<	U	0.091	0.21	0.51	<	0.47	1.1	2.2	U	<	0.087	0.20	0.41	UJ	<	0.4	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.51	<	0.46	1.1	2.2	U	<	0.085	0.20	0.41	UJ	<	0.4	U
4-Amino-2,6-dinitrotoluene	100 J	19 / 24	0.15	J	0.051	0.1	0.15	<	0.32	0.66	1.1	U	4.8	0.059	0.12	2.0	J	1.2	0.2	J
4-Nitrotoluene	0.11 J	1 / 24	0.11	J	0.091	0.21	0.51	<	1.1	2.2	5.5	U	<	0.20	0.41	1.0	UJ	<	1	U
HMX	6.6	11 / 24	<	U	0.037	0.1	0.15	<	0.48	1.1	2.2	U	<	0.089	0.20	0.41	U	<	0.4	U
MNX	0.13 J	1 / 18	<	U	0.029	0.1	0.51	<	2	2	11	U	<	0.36	0.36	2.0	U	<	2	U
Nitrobenzene	24	2 / 24	<	U	0.051	0.1	0.15	<	0.5	1.1	2.2	U	<	0.092	0.20	0.41	UJ	<	0.4	U
RDX	58 J	18 / 24	0.66		0.037	0.1	0.15	1.6	0.29	0.66	1.1		8.9	0.053	0.12	2.0	J	2.7	0.2	
Tetryl	17 J	2 / 24	<	U	0.051	0.1	0.15	<	0.44	1.1	1.3	U	<	0.080	0.20	0.24	UJ	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-EXPLOSIVES

FIELD ID			PZ011			PZ011			PZ011			PZ011			PZ011			PZ011			PZ011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/15/2012			3/10/2011			3/16/2010			3/12/2009			3/20/2008			3/16/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	420	17 / 24	38.6	0.8	J	16.1	0.8	J	21.1	0.8		<	1	U	26	0.48		340	4.9		130	2.5	
1,3-Dinitrobenzene	0.53	4 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.5	U
2,4,6-Trinitrotoluene	1200	18 / 24	19	0.8	J	10	0.8	J	11.6	0.8		0.12	0.4	J	21	0.48		130	4.9		34	0.5	
2,4-Dinitrotoluene	4.17 J	7 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	0.72	0.49		<	0.5	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	67.9	20 / 24	4.7	0.8	J	3.2	0.8	J	4.3	0.8		0.25	0.2		7.7	0.48		23	0.49		12	0.5	
2-Nitrotoluene	1.1 J	1 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.5	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	100 J	19 / 24	4.5	1.4	J	2.5	1.4	J	2.9	0.8		<	0.2	U	7	0.48		13	0.49		7.1	0.5	
4-Nitrotoluene	0.11 J	1 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.5	U
HMX	6.6	11 / 24	0.95	0.8	J	0.39	0.8	J	<	0.8	U	<	0.4	U	<	0.48	U	1.1	0.49	J	0.77	0.5	
MNX	0.13 J	1 / 18	<	0.8	U	<	0.8	UJ	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.5	U
Nitrobenzene	24	2 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.5	U
RDX	58 J	18 / 24	4.9	0.8	J	1.9	0.8	J	2.1	0.8		<	0.2	U	<	0.48	U	0.86	0.49		0.57	0.5	
Tetryl	17 J	2 / 24	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-EXPLOSIVES

FIELD ID			PZ011			PZ011			PZ011			PZ011			PZ011			PZ011			PZ011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/25/2002			3/26/2001			3/20/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	420	17 / 24	130	4.8		350	9.5		420	9.5		0.32	0.22	J	350	34	J	100	8.0		420	80	
1,3-Dinitrobenzene	0.53	4 / 24	<	0.48	U	0.24	0.48	J	0.53	0.19		<	0.22	U	<	0.22	UJ	<	1.6	U	0.44	0.8	J
2,4,6-Trinitrotoluene	1200	18 / 24	16	0.48		130	9.5		110	9.5		390	22	J	250	28	J	520	160.0		1200	150	
2,4-Dinitrotoluene	4.17 J	7 / 24	<	0.48	U	1.2	0.48		0.89	0.37		1.7	0.43	J	1.5	0.22	J	2.3	1.6		<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.37	U	<	0.43	U	<	0.87	U	<	1.6	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	67.9	20 / 24	4.9	0.48		21	0.48	P	14	0.37		34	4.3	J	22	3.5	J	29	1.6		50	100	J
2-Nitrotoluene	1.1 J	1 / 24	<	0.48	U	<	0.48	U	<	0.37	U	<	0.43	U	<	0.69	U	1.1	1.6	J	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.37	U	<	0.43	U	<	0.43	U	<	8.0	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	100 J	19 / 24	2.7	0.48		11	0.48		6.9	0.37		18	0.43	J	42	5.9	J	9.8	1.6		100	1	JE
4-Nitrotoluene	0.11 J	1 / 24	<	0.48	U	<	0.48	U	<	0.59	U	<	0.69	U	<	1.4	U	<	8.0	U	<	1.1	U
HMX	6.6	11 / 24	<	0.48	U	1.3	0.48		1.9	0.46		4	0.54	J	3.4	0.95	J	<	2.0	U	6.6	0.8	
MNX	0.13 J	1 / 18	<	0.48	U	<	0.48	U	0.13	0.19	J		NA			NA			NA			NA	
Nitrobenzene	24	2 / 24	<	0.48	U	<	0.48	U	<	0.19	U	<	0.22	U	<	0.39	U	9.2	8.0		<	0.8	U
RDX	58 J	18 / 24	<	0.48	U	3.7	0.48		4	0.19		16	2.2	J	10	5.6	J	36	8.0		58	80	J
Tetryl	17 J	2 / 24	<	0.48	U	<	0.48	U	<	0.37	U	<	0.43	U	0.54	0.92	J	<	8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-EXPLOSIVES

FIELD ID			PZ011			PZ011		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	420	17 / 24	111	8		37.9	1.00	
1,3-Dinitrobenzene	0.53	4 / 24	<	8	U	<	0.500	U
2,4,6-Trinitrotoluene	1200	18 / 24	955	80		23.7	10.00	
2,4-Dinitrotoluene	4.17 J	7 / 24	4.17	8	J	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	67.9	20 / 24	67.9	8		20.1	0.500	
2-Nitrotoluene	1.1 J	1 / 24	<	8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	100 J	19 / 24	43	8		10.6	1.00	J*
4-Nitrotoluene	0.11 J	1 / 24	<	8	U	<	1.00	U
HMX	6.6	11 / 24	4.75	8	J	5.58	0.500	
MNX	0.13 J	1 / 18		NA			NA	
Nitrobenzene	24	2 / 24	24	8		<	0.500	U
RDX	58 J	18 / 24	26.7	8		20.2	1.00	
Tetryl	17 J	2 / 24	<	8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-EXPLOSIVES

FIELD ID			PZ012					PZ012					PZ012					PZ012				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/10/2020					6/7/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	990	14 / 24	<	U	0.081	0.19	0.2	<	U	0.09	0.21	0.22	<	U	0.2	0.39	0.98	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	1.9 J	2 / 24	<	U	0.036	0.096	0.11	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	2850	19 / 24	<	U	0.043	0.096	0.11	<	U	0.048	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	13 J	14 / 24	<	U	0.026	0.077	0.1	<	U	0.029	0.085	0.11	<	U	0.082	0.2	0.39	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	3 J	1 / 24	<	U	0.039	0.077	0.1	<	U	0.043	0.085	0.11	<	U	0.063	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	108	18 / 24	<	U	0.049	0.096	0.11	<	U	0.054	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.082	0.19	0.2	<	U	0.091	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	90.5	18 / 24	<	U	0.056	0.12	0.14	<	U	0.062	0.13	0.16	<	UJ	0.056	0.12	0.2	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.096	0.38	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.98	<	U	0.093	0.21	0.53
HMX	34	15 / 24	<	U	0.084	0.19	0.2	<	U	0.094	0.21	0.22	<	U	0.086	0.2	0.39	<	U	0.03	0.11	0.16
MNX	8.8	2 / 18	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1	<	U	0.15	0.39	2	<	U	0.038	0.11	0.53
Nitrobenzene	21.1	2 / 24	<	U	0.088	0.19	0.2	<	U	0.097	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.053	0.11	0.16
RDX	134	15 / 24	<	U	0.05	0.19	0.2	<	U	0.055	0.21	0.22	<	U	0.15	0.39	0.39	<	U	0.038	0.11	0.16
Tetryl	0.31 J	1 / 24	<	U	0.031	0.096	0.11	<	U	0.034	0.11	0.12	<	U	0.077	0.2	0.23	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-EXPLOSIVES

FIELD ID			PZ012					PZ012					PZ012					PZ012		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/8/2016					8/10/2015					8/18/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	990	14 / 24	<	U	0.032	0.1	0.16	<	1.1	2.2	5.4	U	<	0.21	0.42	1.0	UJ	61	1	
1,3-Dinitrobenzene	1.9 J	2 / 24	<	U	0.052	0.1	0.16	<	0.48	1.1	2.2	U	<	0.092	0.21	0.42	UJ	<	0.4	U
2,4,6-Trinitrotoluene	2850	19 / 24	0.082	J	0.052	0.1	0.16	<	0.39	1.1	2.2	U	1.6	0.075	0.2	0.42	J	55	0.4	
2,4-Dinitrotoluene	13 J	14 / 24	<	U	0.052	0.1	0.14	<	0.45	1.1	2.2	U	0.24	0.087	0.21	0.42	J	0.27	0.4	J
2,6-Dinitrotoluene	3 J	1 / 24	<	U	0.052	0.1	0.14	<	0.35	1.1	1.1	U	<	0.067	0.21	0.21	UJ	<	0.2	U
2-Amino-4,6-dinitrotoluene	108	18 / 24	<	U	0.031	0.1	0.16	<	0.27	0.65	1.1	U	40	0.26	0.62	1.0	J	26	0.2	
2-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.46	1.1	2.2	U	<	0.089	0.21	0.42	UJ	<	0.4	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.45	1.1	2.2	U	<	0.087	0.21	0.42	UJ	<	0.4	U
4-Amino-2,6-dinitrotoluene	90.5	18 / 24	0.074	J	0.052	0.1	0.16	<	0.31	0.65	1.1	U	60	0.30	0.62	1.0	J	32	0.2	
4-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	1.1	2.2	5.4	U	<	0.21	0.42	1.0	UJ	<	1	U
HMX	34	15 / 24	<	U	0.037	0.1	0.16	<	0.47	1.1	2.2	U	<	0.091	0.21	0.42	U	<	0.4	U
MNX	8.8	2 / 18	<	U	0.029	0.1	0.52	8.8	1.9		11	J	<	0.37	0.37	2.1	U	<	2	U
Nitrobenzene	21.1	2 / 24	<	U	0.052	0.1	0.16	<	0.49	1.1	2.2	U	<	0.095	0.21	0.42	UJ	<	0.4	U
RDX	134	15 / 24	<	U	0.037	0.1	0.16	<	0.28	0.65	1.1	U	<	0.054	0.12	0.21	U	0.37	0.2	J
Tetryl	0.31 J	1 / 24	<	U	0.052	0.1	0.16	<	0.43	1.1	1.3	U	<	0.083	0.21	0.25	UJ	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-EXPLOSIVES

FIELD ID			PZ012			PZ012			PZ012			PZ012			PZ012			PZ012			PZ012		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/15/2012			3/10/2011			3/16/2010			3/12/2009			3/20/2008			3/16/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	990	14 / 24	126	2.4		2.1	0.8	J	19.6	0.8		<	1	U	<	0.48	U	480	9.5		600	10	
1,3-Dinitrobenzene	1.9 J	2 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	1.9	0.4	J	<	0.48	U	<	0.48	U	<	0.5	U
2,4,6-Trinitrotoluene	2850	19 / 24	228	2.4		30.4	0.8	J	63.9	0.8		2.4	0.4	J	3.4	0.48		340	9.5		140	10	
2,4-Dinitrotoluene	13 J	14 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	0.56	0.4	J	<	0.48	U	2.4	0.48		1.1	0.5	
2,6-Dinitrotoluene	3 J	1 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	108	18 / 24	33.5	0.8		20.4	0.8	J	30.7	0.8		21	0.2	J	15	0.48		45	0.48		11	0.5	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	90.5	18 / 24	37.7	1.4		26.1	1.4	J	29.1	0.8		31	0.4	J	34	0.48		35	0.48		5.1	0.5	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U
HMX	34	15 / 24	30.9	0.8		12.1	0.8	J	11.9	0.8	J	3.5	0.4	J	34	0.48		1.4	0.48	J	0.63	0.5	
MNX	8.8	2 / 18	<	0.8	U	<	0.8	UJ	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U
Nitrobenzene	21.1	2 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U
RDX	134	15 / 24	3.1	0.8		2.4	0.8	J	2.6	0.8		<	0.2	U	<	0.48	U	5.1	0.48		2.5	0.5	
Tetryl	0.31 J	1 / 24	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-EXPLOSIVES

FIELD ID			PZ012			PZ012			PZ012			PZ012			PZ012			PZ012			PZ012		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/25/2002			3/26/2001			3/20/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	990	14 / 24	690	24		720	24		990	87		<	0.22	U	790	25	J	780	80.0		550	80	
1,3-Dinitrobenzene	1.9 J	2 / 24	<	0.48	U	<	0.48	U	0.45	0.17		<	0.22	U	<	0.17	UJ	<	1.6	U	<	0.8	U
2,4,6-Trinitrotoluene	2850	19 / 24	170	24		200	24		170	17		320	22	J	250	21	J	690	80.0		1100	150	
2,4-Dinitrotoluene	13 J	14 / 24	1.5	0.48		1.5	0.48		1.2	0.34		2.4	0.43	J	1.3	0.17	J	1.80	1.6		1.70	1.1	
2,6-Dinitrotoluene	3 J	1 / 24	<	0.48	U	<	0.48	U	<	0.34	U	3	0.43	J	<	0.64	U	<	1.6	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	108	18 / 24	11	0.48		18	0.48	P	14	0.34		25	4.3	J	15	2.6	J	1.9	8.0		33	1	JE
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.43	U	<	0.51	U	<	1.6	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.43	U	<	0.32	U	<	8.0	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	90.5	18 / 24	7.2	0.48		13	0.48		8.8	0.34		15	0.43	J	13	4.3	J	12	1.6		<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.54	U	<	0.7	U	<	1.0	U	<	8.0	U	<	1.1	U
HMX	34	15 / 24	1.7	0.48		1.6	0.48		2.6	0.42		4.7	0.55	J	4.2	0.70	J	4.8	2.0		4.8	0.8	
MNX	8.8	2 / 18	<	0.48	U	<	0.48	U	0.25	0.17			NA			NA			NA			NA	
Nitrobenzene	21.1	2 / 24	<	0.48	U	<	0.48	U	<	0.17	U	<	0.22	U	<	0.29	U	7.3	1.6		<	0.8	U
RDX	134	15 / 24	4.4	0.48		3.6	0.48		7.1	0.17		12	2.2	J	18	4.1	J	26	8.0		31	80	J
Tetryl	0.31 J	1 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.43	U	0.31	0.68	J	<	8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-EXPLOSIVES

FIELD ID			PZ012			PZ012		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	990	14 / 24	584	80		268	50.00	J
1,3-Dinitrobenzene	1.9 J	2 / 24	<	8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	2850	19 / 24	2850	80	E	767	50.00	J
2,4-Dinitrotoluene	13 J	14 / 24	4.65	8	J	13.0	0.500	J
2,6-Dinitrotoluene	3 J	1 / 24	<	8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	108	18 / 24	108	8		45.2	0.500	J
2-Nitrotoluene	-	0 / 24	<	8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 24	<	8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	90.5	18 / 24	90.5	8		27.6	1.00	J
4-Nitrotoluene	-	0 / 24	<	8	U	<	1.00	UJ
HMX	34	15 / 24	14.7	8		<	0.500	UJ
MNX	8.8	2 / 18		NA			NA	
Nitrobenzene	21.1	2 / 24	21.1	8		<	0.500	UJ
RDX	134	15 / 24	134	80		6.57	1.00	J
Tetryl	0.31 J	1 / 24	<	8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-EXPLOSIVES

FIELD ID			PZ013					PZ013					PZ013					PZ013				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/12/2020					6/6/2019					3/14/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	570	12 / 24	<	U	0.081	0.19	0.2	<	U	0.091	0.22	0.23	<	U	0.2	0.4	0.99	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	0.71 J	1 / 24	<	U	0.036	0.096	0.11	<	U	0.04	0.11	0.12	<	U	0.088	0.2	0.4	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	3300	14 / 24	0.4		0.043	0.096	0.11	<	U	0.049	0.11	0.12	<	U	0.16	0.4	0.4	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	15.5	10 / 24	<	U	0.026	0.077	0.1	0.078	J	0.03	0.087	0.11	<	U	0.083	0.2	0.4	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	2.5 J	2 / 24	<	U	0.039	0.077	0.1	<	U	0.043	0.087	0.11	<	U	0.064	0.2	0.2	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	170	20 / 24	4.9		0.049	0.096	0.11	3.9		0.055	0.11	0.12	0.67		0.05	0.12	0.2	0.97		0.032	0.11	0.16
2-Nitrotoluene	0.12 J	1 / 24	<	UJ	0.082	0.19	0.2	<	U	0.093	0.22	0.23	<	UJ	0.085	0.2	0.4	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.39	0.39	<	U	0.21	0.43	0.43	<	UJ	0.19	0.4	0.4	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	89	18 / 24	5.6		0.056	0.12	0.14	3.9		0.062	0.13	0.16	1.7	J	0.057	0.12	0.2	2.1		0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.096	0.39	0.39	<	U	0.11	0.43	0.44	<	UJ	0.2	0.4	0.99	<	U	0.093	0.21	0.53
HMX	27 J	16 / 24	<	U	0.084	0.19	0.2	<	U	0.095	0.22	0.23	<	U	0.087	0.2	0.4	1.6	J	0.03	0.11	0.16
MNX	1.3	5 / 18	<	U	0.15	0.39	1.9	<	U	0.17	0.43	2.2	<	U	0.15	0.4	2	<	U	0.038	0.11	0.53
Nitrobenzene	23	3 / 24	<	U	0.088	0.19	0.2	<	U	0.099	0.22	0.23	<	U	0.09	0.2	0.4	<	U	0.053	0.11	0.16
RDX	195	17 / 24	<	U	0.05	0.19	0.2	<	U	0.056	0.22	0.23	<	U	0.16	0.4	0.4	0.28	J	0.038	0.11	0.16
Tetryl	3.4 J	1 / 24	<	U	0.031	0.096	0.11	<	U	0.034	0.11	0.12	3.4	J	0.078	0.2	0.24	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-EXPLOSIVES

FIELD ID			PZ013					PZ013					PZ013					PZ013		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/9/2016					8/10/2015					8/12/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	570	12 / 24	<	U	0.033	0.11	0.16	<	0.21	0.42	1.1	U	<	0.20	0.41	1.0	UJ	<	1	U
1,3-Dinitrobenzene	0.71 J	1 / 24	<	U	0.053	0.11	0.16	<	0.094	0.21	0.42	U	<	0.091	0.20	0.41	U	<	0.41	U
2,4,6-Trinitrotoluene	3300	14 / 24	<	U	0.053	0.11	0.16	<	0.076	0.21	0.42	U	<	0.074	0.20	0.41	U	<	0.41	U
2,4-Dinitrotoluene	15.5	10 / 24	<	U	0.053	0.11	0.14	<	0.088	0.21	0.42	U	<	0.086	0.20	0.41	U	<	0.41	U
2,6-Dinitrotoluene	2.5 J	2 / 24	<	U	0.053	0.11	0.14	<	0.068	0.21	0.21	U	<	0.066	0.20	0.20	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	170	20 / 24	<	U	0.032	0.11	0.16	<	0.054	0.13	0.21	U	0.24	0.052	0.12	0.20	J	<	0.21	UJ
2-Nitrotoluene	0.12 J	1 / 24	<	U	0.092	0.21	0.53	<	0.09	0.21	0.42	U	<	0.087	0.20	0.41	U	0.12	0.41	J
3-Nitrotoluene	-	0 / 24	<	U	0.06	0.21	0.53	<	0.088	0.21	0.42	U	<	0.085	0.20	0.41	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	89	18 / 24	<	U	0.053	0.11	0.16	<	0.061	0.13	0.21	U	0.26	0.059	0.12	0.20	J	<	0.21	U
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.53	<	0.21	0.42	1.1	U	<	0.20	0.41	1.0	U	<	1	U
HMX	27 J	16 / 24	2.7	J	0.038	0.11	0.16	1.7	0.092	0.21	0.42	J	<	0.090	0.20	0.41	U	<	0.41	U
MNX	1.3	5 / 18	<	U	0.029	0.11	0.53	<	0.38	0.38	2.1	U	<	0.37	0.37	2.0	U	<	2.1	U
Nitrobenzene	23	3 / 24	<	U	0.053	0.11	0.16	1.5	0.096	0.21	0.42		<	0.093	0.20	0.41	U	<	0.41	U
RDX	195	17 / 24	0.045	J	0.038	0.11	0.16	0.082	0.055	0.13	0.21	J	<	0.054	0.12	0.20	U	<	0.21	U
Tetryl	3.4 J	1 / 24	<	U	0.053	0.11	0.16	<	0.084	0.21	0.25	U	<	0.081	0.20	0.25	U	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-EXPLOSIVES

FIELD ID			PZ013			PZ013			PZ013			PZ013			PZ013			PZ013			PZ013		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/14/2012			3/10/2011			3/17/2010			3/12/2009			3/19/2008			3/16/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	570	12 / 24	<	0.8	U	<	0.8	U	<	0.8	U	90	5	J	150	2.4	J	13	0.49		510	11	
1,3-Dinitrobenzene	0.71 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.54	U
2,4,6-Trinitrotoluene	3300	14 / 24	<	0.8	U	<	0.8	U	<	0.8	U	57	2	J	120	2.4	J	17	0.49		600	11	
2,4-Dinitrotoluene	15.5	10 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	2.3	0.54	
2,6-Dinitrotoluene	2.5 J	2 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.54	U
2-Amino-4,6-dinitrotoluene	170	20 / 24	<	0.8	U	3.6	0.8		0.23	0.8	J	17	0.2	J	22	0.48		3.8	0.49		49	0.54	
2-Nitrotoluene	0.12 J	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.54	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.54	U
4-Amino-2,6-dinitrotoluene	89	18 / 24	<	1.4	U	3.5	1.4		<	0.8	U	10	0.2	J	18	0.48		5	0.49		12	0.54	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.54	U
HMX	27 J	16 / 24	<	0.8	U	8.1	0.8	J	1.7	0.8		5.3	0.4	J	20	0.48		9.2	0.49	J	19	0.54	
MNX	1.3	5 / 18	<	0.8	U	<	0.8	U	<	0.8	U	1.1	2	J	<	0.48	U	<	0.49	U	1.3	0.54	
Nitrobenzene	23	3 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.54	U
RDX	195	17 / 24	<	0.8	U	1.8	0.8		1.4	0.8		3	0.2	J	29	0.48		5.3	0.49		29	0.54	
Tetryl	3.4 J	1 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.54	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-EXPLOSIVES

FIELD ID			PZ013			PZ013			PZ013			PZ013			PZ013			PZ013			PZ013		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/17/2005			3/17/2004			3/24/2003			3/25/2002			3/26/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	570	12 / 24	480	24		440	48		550	44		<	0.2	U	500	17	J	570	40		410	160	
1,3-Dinitrobenzene	0.71 J	1 / 24	<	0.48	U	<	0.48	U	<	0.22	U	<	0.2	U	<	0.23	U	<	4	U	0.71	0.8	J
2,4,6-Trinitrotoluene	3300	14 / 24	840	24		1000	48		1200	44		1600	100	J	1600	57	J	3300	400		2500	300	
2,4-Dinitrotoluene	15.5	10 / 24	2	0.48		2	0.48		2.3	0.43		3.6	0.39	J	3.5	0.23	J	<	4	U	8.7	1.1	
2,6-Dinitrotoluene	2.5 J	2 / 24	<	0.48	U	<	0.48	U	<	0.43	U	1.5	0.39	J	2.5	0.88	J	<	4	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	170	20 / 24	49	0.48		45	0.48	P	44	4.3		43	3.9	J	47	3.5	J	85	40		170	50	
2-Nitrotoluene	0.12 J	1 / 24	<	0.48	U	<	0.48	U	<	0.43	U	<	0.39	U	<	0.69	U	<	4	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.43	U	<	0.39	U	<	0.44	U	<	40	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	89	18 / 24	20	0.48		<	0.48	U	18	0.43		20	3.9	J	30	6.0	J	17	4		89	50	
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.69	U	<	0.63	U	<	1.4	U	<	40	U	<	1.1	U
HMX	27 J	16 / 24	15	0.48		12	0.48		11	0.54		12	4.9	J	9.0	9.6	J	<	5	U	27	40	J
MNX	1.3	5 / 18	0.79	0.48		0.72	0.48	P	0.64	0.22			NA			NA			NA			NA	
Nitrobenzene	23	3 / 24	<	0.48	U	<	0.48	U	<	0.22	U	<	0.2	U	<	0.40	U	23	4		<	0.8	U
RDX	195	17 / 24	31	0.48		36	0.48		41	2.2		53	2	J	110	28	J	110	40		130	40	
Tetryl	3.4 J	1 / 24	<	0.48	U	<	0.48	U	<	0.43	U	<	0.39	U	<	0.94	U	<	40	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-EXPLOSIVES

FIELD ID			PZ013			PZ013		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	570	12 / 24	444	80		252	50.00	
1,3-Dinitrobenzene	0.71 J	1 / 24	<	8	U	<	0.500	U
2,4,6-Trinitrotoluene	3300	14 / 24	2610	80	E	758	50.00	
2,4-Dinitrotoluene	15.5	10 / 24	11.5	8		15.5	0.500	
2,6-Dinitrotoluene	2.5 J	2 / 24	<	8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	170	20 / 24	105	8		57.0	0.500	
2-Nitrotoluene	0.12 J	1 / 24	<	8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	89	18 / 24	53.9	8		23.4	1.00	
4-Nitrotoluene	-	0 / 24	<	8	U	<	1.00	U
HMX	27 J	16 / 24	7.62	8		<	0.500	U
MNX	1.3	5 / 18		NA			NA	
Nitrobenzene	23	3 / 24	20.3	8		<	0.500	U
RDX	195	17 / 24	195	80		<	1.00	U
Tetryl	3.4 J	1 / 24	<	8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-EXPLOSIVES

FIELD ID			PZ014					PZ014					PZ014					PZ014				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/23/2021					6/12/2020					6/6/2019					3/15/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	1.3	7 / 24	<	U	0.081	0.19	0.2	<	U	0.092	0.22	0.23	<	U	0.2	0.4	0.99	<	UJ	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 24	<	U	0.035	0.096	0.11	<	U	0.041	0.11	0.12	<	U	0.088	0.2	0.4	<	UJ	0.053	0.11	0.16
2,4,6-Trinitrotoluene	4.8	10 / 24	<	U	0.043	0.096	0.11	<	U	0.049	0.11	0.12	<	U	0.16	0.4	0.4	<	UJ	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 24	<	U	0.026	0.077	0.1	<	U	0.03	0.088	0.11	<	U	0.083	0.2	0.4	<	UJ	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.039	0.077	0.1	<	U	0.044	0.088	0.11	<	U	0.064	0.2	0.2	<	UJ	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	1.7	10 / 24	<	U	0.049	0.096	0.11	<	U	0.056	0.11	0.12	<	U	0.05	0.12	0.2	<	UJ	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.082	0.19	0.2	<	U	0.094	0.22	0.23	<	UJ	0.085	0.2	0.4	<	UJ	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.38	0.38	<	U	0.21	0.44	0.44	<	UJ	0.19	0.4	0.4	<	UJ	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	2.2	8 / 24	<	U	0.055	0.12	0.14	<	U	0.063	0.13	0.16	<	UJ	0.057	0.12	0.2	<	UJ	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.096	0.38	0.39	<	U	0.11	0.44	0.45	<	UJ	0.2	0.4	0.99	<	UJ	0.093	0.21	0.53
HMX	4	9 / 24	<	U	0.084	0.19	0.2	<	U	0.096	0.22	0.23	<	U	0.087	0.2	0.4	0.16	J	0.03	0.11	0.16
MNX	0.33 J	1 / 18	<	U	0.15	0.38	1.9	<	U	0.17	0.44	2.2	<	U	0.15	0.4	2	<	UJ	0.038	0.11	0.53
Nitrobenzene	-	0 / 24	<	U	0.088	0.19	0.2	<	U	0.1	0.22	0.23	<	U	0.09	0.2	0.4	<	UJ	0.053	0.11	0.16
RDX	24	10 / 24	<	U	0.05	0.19	0.2	<	U	0.057	0.22	0.23	<	U	0.16	0.4	0.4	<	UJ	0.038	0.11	0.16
Tetryl	-	0 / 24	<	U	0.031	0.096	0.11	<	U	0.035	0.11	0.12	<	U	0.079	0.2	0.24	<	UJ	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-EXPLOSIVES

FIELD ID			PZ014					PZ014					PZ014					PZ014		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/25/2017					8/9/2016					8/11/2015					8/12/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	1.3	7 / 24	<	U	0.032	0.1	0.15	<	0.25	0.49	1.2	U	<	0.20	0.41	1.0	UJ	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.051	0.1	0.15	<	0.11	0.25	0.49	U	<	0.090	0.20	0.41	UJ	<	0.41	U
2,4,6-Trinitrotoluene	4.8	10 / 24	<	U	0.051	0.1	0.15	<	0.089	0.25	0.49	U	<	0.074	0.20	0.41	UJ	<	0.41	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.051	0.1	0.13	<	0.1	0.25	0.49	U	<	0.085	0.20	0.41	UJ	<	0.41	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.051	0.1	0.13	<	0.079	0.25	0.25	U	<	0.066	0.20	0.20	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	1.7	10 / 24	<	U	0.031	0.1	0.15	<	0.062	0.15	0.25	U	<	0.052	0.12	0.20	UJ	<	0.21	U
2-Nitrotoluene	-	0 / 24	<	U	0.09	0.21	0.51	<	0.11	0.25	0.49	U	<	0.087	0.20	0.41	UJ	<	0.41	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.51	<	0.1	0.25	0.49	U	<	0.085	0.20	0.41	UJ	<	0.41	U
4-Amino-2,6-dinitrotoluene	2.2	8 / 24	<	U	0.051	0.1	0.15	<	0.071	0.15	0.25	U	<	0.059	0.12	0.20	UJ	<	0.21	U
4-Nitrotoluene	-	0 / 24	<	U	0.09	0.21	0.51	<	0.25	0.49	1.2	U	<	0.20	0.41	1.0	UJ	<	1	U
HMX	4	9 / 24	<	U	0.037	0.1	0.15	<	0.11	0.25	0.49	U	<	0.089	0.20	0.41	U	<	0.41	J
MNX	0.33 J	1 / 18	<	U	0.029	0.1	0.51	<	0.44	0.44	2.5	U	<	0.37	0.37	2.0	U	<	2.1	U
Nitrobenzene	-	0 / 24	<	U	0.051	0.1	0.15	<	0.11	0.25	0.49	U	<	0.093	0.20	0.41	UJ	<	0.41	U
RDX	24	10 / 24	0.34	J	0.037	0.1	0.15	<	0.064	0.15	0.25	U	0.072	0.053	0.12	0.20	J	<	0.21	U
Tetryl	-	0 / 24	<	U	0.051	0.1	0.15	<	0.097	0.25	0.29	U	<	0.081	0.20	0.24	UJ	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-EXPLOSIVES

FIELD ID			PZ014			PZ014			PZ014			PZ014			PZ014			PZ014			PZ014		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2013			3/14/2012			3/10/2011			3/17/2010			3/12/2009			3/19/2008			3/16/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	1.3	7 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	1.3	0.48	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	4.8	10 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	2.6	0.48	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	1.7	10 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.062	0.2	J	<	0.48	U	<	0.49	U	1.7	0.48	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	2.2	8 / 24	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	2.2	0.48	
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.48	U
HMX	4	9 / 24	0.13	0.8	J	0.23	0.8	J	0.15	0.8	J	<	0.4	U	<	0.48	U	<	0.49	U	4	0.48	
MNX	0.33 J	1 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U
RDX	24	10 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	15	0.48	
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-EXPLOSIVES

FIELD ID			PZ014			PZ014			PZ014			PZ014			PZ014			PZ014			PZ014		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/17/2006			3/17/2005			3/17/2004			3/25/2003			3/25/2002			3/26/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	1.3	7 / 24	1.1	0.49		1	0.48		1.1	0.28		<	0.19	U	0.81	0.28		1.1	0.8		1.0	0.8	
1,3-Dinitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.28	U	<	0.19	U	<	0.18	UJ	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	4.8	10 / 24	3.1	0.49		3.9	0.48		4.6	0.28		3.8	0.19		2.8	0.23		4.8	0.8		3.8	1.5	
2,4-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.55	U	<	0.36	U	<	0.18	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.55	U	<	0.36	U	<	0.71	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	1.7	10 / 24	1.1	0.49		1.1	0.48	P	1.5	0.55		1.7	0.36		1.1	0.29		1.7	0.8		1.3	1	
2-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.55	U	<	0.36	U	<	0.56	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.55	U	<	0.36	U	<	0.36	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	2.2	8 / 24	1.9	0.49		1.4	0.48		1.2	0.55		<	0.36	U	1.0	0.48		1.3	0.8		0.61	1	J
4-Nitrotoluene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.88	U	<	0.58	U	<	1.2	U	<	0.8	U	<	1.1	U
HMX	4	9 / 24	3	0.49		2	0.48		<	0.69	U	0.39	0.46	J	0.32	0.78		<	1	U	<	0.8	U
MNX	0.33 J	1 / 18	<	0.49	U	0.33	0.48	J	<	0.28	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.49	U	<	0.48	U	<	0.28	U	<	0.19	U	<	0.32	U	<	0.8	U	<	0.8	U
RDX	24	10 / 24	20	0.49		24	0.48		5.9	0.28		2.1	0.19		1.3	0.46		3.1	0.8		<	0.8	U
Tetryl	-	0 / 24	<	0.49	U	<	0.48	U	<	0.55	U	<	0.36	U	<	0.76	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-EXPLOSIVES

FIELD ID			PZ014			PZ014		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/31/1999			6/22/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	1.3	7 / 24	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	4.8	10 / 24	3.53	0.8		3.66	1.00	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	1.7	10 / 24	1.37	0.8		<	0.500	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	2.2	8 / 24	0.828	0.8		<	1.00	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
HMX	4	9 / 24	<	0.8	U	<	0.500	U
MNX	0.33 J	1 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
RDX	24	10 / 24	0.272	0.8	J	<	1.00	U
Tetryl	-	0 / 24	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-EXPLOSIVES

FIELD ID			PZ015					PZ015					PZ015					PZ015				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/21/2021					6/13/2020					6/4/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	130	12 / 24	0.18	J	0.095	0.23	0.24	<	U	0.088	0.21	0.22	<	U	0.22	0.43	1.1	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 24	<	U	0.042	0.11	0.12	<	U	0.039	0.1	0.11	<	U	0.096	0.22	0.43	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	240 J	10 / 24	<	U	0.051	0.11	0.12	<	U	0.047	0.1	0.11	<	U	0.17	0.43	0.43	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	1.3 J	4 / 24	<	U	0.031	0.091	0.11	<	U	0.029	0.084	0.1	<	U	0.09	0.22	0.43	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	0.74	1 / 24	<	U	0.045	0.091	0.11	<	U	0.042	0.084	0.1	0.74		0.07	0.22	0.22	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	7.5 J	11 / 24	<	UJ	0.057	0.11	0.12	<	U	0.053	0.1	0.11	<	U	0.055	0.13	0.22	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 24	<	UJ	0.097	0.23	0.24	<	U	0.089	0.21	0.22	<	UJ	0.092	0.22	0.43	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 24	<	UJ	0.22	0.45	0.45	<	U	0.2	0.42	0.42	<	U	0.21	0.43	0.43	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	10 J	11 / 24	<	UJ	0.065	0.14	0.17	<	U	0.06	0.13	0.16	<	U	0.062	0.13	0.22	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 24	<	UJ	0.11	0.45	0.46	<	U	0.1	0.42	0.43	<	UJ	0.22	0.43	1.1	<	U	0.09	0.2	0.51
HMX	12 J	17 / 24	<	U	0.099	0.23	0.24	<	U	0.092	0.21	0.22	<	U	0.094	0.22	0.43	0.37		0.029	0.1	0.15
MNX	0.61	2 / 18	<	U	0.17	0.45	2.3	<	U	0.16	0.42	2.1	<	U	0.17	0.43	2.2	<	U	0.037	0.1	0.51
Nitrobenzene	1.8 J	1 / 24	<	U	0.1	0.23	0.24	<	U	0.095	0.21	0.22	<	U	0.098	0.22	0.43	<	U	0.051	0.1	0.15
RDX	115	17 / 24	<	U	0.058	0.23	0.24	<	U	0.054	0.21	0.22	0.85	J	0.17	0.43	0.43	<	U	0.037	0.1	0.15
Tetryl	-	0 / 24	<	U	0.036	0.11	0.12	<	U	0.033	0.1	0.11	<	U	0.085	0.22	0.26	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-EXPLOSIVES

FIELD ID			PZ015					PZ015					PZ015					PZ015		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/12/2016					8/13/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	130	12 / 24	<	U	0.032	0.1	0.16	<	0.23	0.46	1.1	U	<	0.22	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.1	0.23	0.46	U	<	0.096	0.22	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	240 J	10 / 24	<	U	0.052	0.1	0.16	<	0.082	0.23	0.46	U	<	0.078	0.22	0.43	U	<	0.41	U
2,4-Dinitrotoluene	1.3 J	4 / 24	<	U	0.052	0.1	0.13	<	0.095	0.23	0.46	U	<	0.090	0.22	0.43	U	<	0.41	U
2,6-Dinitrotoluene	0.74	1 / 24	<	U	0.052	0.1	0.13	<	0.073	0.23	0.23	U	<	0.070	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	7.5 J	11 / 24	<	U	0.031	0.1	0.16	<	0.058	0.14	0.23	U	<	0.055	0.13	0.22	U	<	0.21	U
2-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.097	0.23	0.46	U	<	0.092	0.22	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 24	<	U	0.059	0.21	0.52	<	0.095	0.23	0.46	U	<	0.090	0.22	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	10 J	11 / 24	<	U	0.052	0.1	0.16	<	0.066	0.14	0.23	U	<	0.062	0.13	0.22	U	<	0.21	U
4-Nitrotoluene	-	0 / 24	<	U	0.091	0.21	0.52	<	0.23	0.46	1.1	U	<	0.22	0.43	1.1	U	<	1	U
HMX	12 J	17 / 24	0.74		0.037	0.1	0.16	<	0.1	0.23	0.46	U	<	0.094	0.22	0.43	U	<	0.41	J
MNX	0.61	2 / 18	<	U	0.029	0.1	0.52	<	0.41	0.41	2.3	U	<	0.39	0.39	2.2	U	<	2.1	U
Nitrobenzene	1.8 J	1 / 24	<	U	0.052	0.1	0.16	<	0.1	0.23	0.46	U	<	0.098	0.22	0.43	U	<	0.41	U
RDX	115	17 / 24	0.84	J	0.037	0.1	0.16	<	0.06	0.14	0.23	U	<	0.056	0.13	0.22	U	<	0.21	U
Tetryl	-	0 / 24	<	U	0.052	0.1	0.16	<	0.09	0.23	0.27	U	<	0.085	0.22	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-EXPLOSIVES

FIELD ID			PZ015			PZ015			PZ015			PZ015			PZ015			PZ015			PZ015		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/13/2012			3/15/2011			3/18/2010			3/16/2009			3/18/2008			3/15/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	130	12 / 24	<	0.8	U	<	0.8	U	<	0.8	U	6.5	0.99		84	2.4		110	2.4		130	2.5	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	240 J	10 / 24	<	0.8	U	<	0.8	U	<	0.8	U	3.9	0.4		47	0.48		61	2.4		74	2.5	
2,4-Dinitrotoluene	1.3 J	4 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	0.55	0.49	
2,6-Dinitrotoluene	0.74	1 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	7.5 J	11 / 24	<	0.8	U	<	0.8	U	<	0.8	U	0.75	0.2		4.7	0.48		5.1	0.48		4.9	0.49	
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	10 J	11 / 24	<	1.4	U	<	1.4	U	<	0.8	U	0.64	0.2		5.7	0.48		5.5	0.48		4.9	0.49	J
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.49	U
HMX	12 J	17 / 24	1.3	0.8	J	5	0.8		10	0.8	J	3.5	0.4		3.6	0.48		3.8	0.48	J	2.9	0.49	J
MNX	0.61	2 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.49	U
Nitrobenzene	1.8 J	1 / 24	<	0.8	U	1.8	0.8	J	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
RDX	115	17 / 24	<	0.8	U	4	0.8		2.5	0.8		11	0.2		19	0.48		7.9	0.48		10	0.49	
Tetryl	-	0 / 24	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-EXPLOSIVES

FIELD ID			PZ015			PZ015			PZ015			PZ015			PZ015			PZ015			PZ015		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/16/2005			3/18/2004			3/18/2003			3/22/2002			3/23/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	130	12 / 24	120	4.8		100	4.8		110	8.7		0.98	0.2	J	110	30	J	<	0.8	U	2.5	0.8	
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.17	U	<	0.2	U	<	0.20	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	240 J	10 / 24	98	4.8		110	4.8		140	8.7		240	20	J	230	25	J	<	0.8	U	7.6	1.5	
2,4-Dinitrotoluene	1.3 J	4 / 24	<	0.48	U	0.55	0.48		0.94	0.34		<	1.3	UJ	1.3	0.20	J	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	0.74	1 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.38	U	<	0.78	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	7.5 J	11 / 24	5	0.48		4.7	0.48	P	6.7	0.34		7.5	0.38	J	7.3	0.31	J	1	0.8		0.58	1	J
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.38	U	<	0.61	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.38	U	<	0.39	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	10 J	11 / 24	4.7	0.48		5.7	0.48		6.4	0.34		8.8	0.38	J	10	0.52	J	0.68	0.8	J	0.77	1	J
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.54	U	<	0.62	U	<	1.2	U	<	0.8	U	<	1.1	U
HMX	12 J	17 / 24	3.5	0.48		4.2	0.48		6.9	0.42		12	4.8	J	11	8.5	J	1.8	1		7.4	0.8	
MNX	0.61	2 / 18	<	0.48	U	0.36	0.48	J	0.61	0.17			NA			NA			NA			NA	
Nitrobenzene	1.8 J	1 / 24	<	0.48	U	<	0.48	U	<	0.17	U	<	0.2	U	<	0.35	U	<	0.8	U	<	0.8	U
RDX	115	17 / 24	9.8	0.48		27	0.48		33	1.7		72	2	J	71	5.0	J	9.7	0.8		58	8	
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.34	U	<	0.38	U	<	0.82	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-EXPLOSIVES

FIELD ID			PZ015			PZ015		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	4/2/1999			6/18/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	130	12 / 24	<	0.8	U	1.78	1.00	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	240 J	10 / 24	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	1.3 J	4 / 24	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	0.74	1 / 24	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	7.5 J	11 / 24	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	10 J	11 / 24	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	1.00	U
HMX	12 J	17 / 24	<	0.8	U	6.30	0.500	
MNX	0.61	2 / 18		NA			NA	
Nitrobenzene	1.8 J	1 / 24	<	0.8	U	<	0.500	U
RDX	115	17 / 24	5.2	0.8		115	1.00	
Tetryl	-	0 / 24	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-EXPLOSIVES

FIELD ID			PZ016					PZ016					PZ016					PZ016				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/22/2021					6/13/2020					6/9/2019					3/22/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	99	12 / 24	<	U	0.083	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.2	0.41	1	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 24	<	U	0.036	0.098	0.11	<	U	0.039	0.1	0.12	<	U	0.091	0.2	0.41	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	12	13 / 24	<	U	0.044	0.098	0.11	<	U	0.047	0.1	0.12	<	U	0.16	0.41	0.41	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 24	<	U	0.027	0.079	0.1	<	U	0.029	0.084	0.1	<	U	0.086	0.2	0.41	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 24	<	U	0.039	0.079	0.1	<	U	0.042	0.084	0.1	<	U	0.066	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	0.65 J	13 / 24	0.58	J	0.05	0.098	0.11	0.19	J	0.053	0.1	0.12	0.097	J	0.052	0.12	0.2	0.59		0.031	0.1	0.16
2-Nitrotoluene	-	0 / 24	<	UJ	0.084	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.087	0.2	0.41	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 24	<	UJ	0.19	0.39	0.39	<	U	0.2	0.42	0.42	<	UJ	0.2	0.41	0.41	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	0.96	6 / 24	0.96		0.057	0.12	0.15	0.36		0.06	0.13	0.16	0.15	J	0.059	0.12	0.2	0.83		0.052	0.1	0.16
4-Nitrotoluene	-	0 / 24	<	UJ	0.098	0.39	0.4	<	U	0.1	0.42	0.43	<	UJ	0.2	0.41	1	<	U	0.091	0.21	0.52
HMX	1.8	12 / 24	1.2		0.086	0.2	0.21	<	U	0.092	0.21	0.22	0.39	J	0.09	0.2	0.41	1.4		0.029	0.1	0.16
MNX	2.7 J	1 / 18	<	U	0.15	0.39	2	<	U	0.16	0.42	2.1	<	U	0.16	0.41	2	<	U	0.037	0.1	0.52
Nitrobenzene	-	0 / 24	<	U	0.089	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.093	0.2	0.41	<	U	0.052	0.1	0.16
RDX	4.2	13 / 24	0.66		0.051	0.2	0.21	<	U	0.054	0.21	0.22	0.33	J	0.16	0.41	0.41	0.85		0.037	0.1	0.16
Tetryl	-	0 / 24	<	U	0.031	0.098	0.11	<	U	0.033	0.1	0.12	<	U	0.081	0.2	0.25	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-EXPLOSIVES

FIELD ID			PZ016					PZ016					PZ016					PZ016		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/12/2016					8/13/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	99	12 / 24	<	U	0.032	0.1	0.16	<	0.22	0.44	1.1	U	<	0.22	0.43	1.1	U	<	1	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.097	0.22	0.44	U	<	0.096	0.22	0.43	U	<	0.41	U
2,4,6-Trinitrotoluene	12	13 / 24	<	U	0.052	0.1	0.16	<	0.079	0.22	0.44	U	<	0.078	0.22	0.43	U	<	0.41	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.092	0.22	0.44	U	<	0.091	0.22	0.43	U	<	0.41	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.052	0.1	0.14	<	0.07	0.22	0.22	U	<	0.070	0.22	0.22	U	<	0.21	U
2-Amino-4,6-dinitrotoluene	0.65 J	13 / 24	<	U	0.031	0.1	0.16	<	0.055	0.13	0.22	U	<	0.055	0.13	0.22	U	<	0.21	U
2-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.093	0.22	0.44	U	<	0.093	0.22	0.43	U	<	0.41	U
3-Nitrotoluene	-	0 / 24	<	U	0.06	0.21	0.52	<	0.091	0.22	0.44	U	<	0.090	0.22	0.43	U	<	0.41	U
4-Amino-2,6-dinitrotoluene	0.96	6 / 24	0.76		0.052	0.1	0.16	<	0.063	0.13	0.22	U	<	0.063	0.13	0.22	U	<	0.21	U
4-Nitrotoluene	-	0 / 24	<	U	0.092	0.21	0.52	<	0.22	0.44	1.1	U	<	0.22	0.43	1.1	U	<	1	U
HMX	1.8	12 / 24	1.2		0.038	0.1	0.16	<	0.096	0.22	0.44	U	<	0.095	0.22	0.43	U	<	0.41	J
MNX	2.7 J	1 / 18	<	U	0.029	0.1	0.52	<	0.39	0.39	2.2	U	<	0.39	0.39	2.2	U	<	2.1	U
Nitrobenzene	-	0 / 24	<	U	0.052	0.1	0.16	<	0.099	0.22	0.44	U	<	0.099	0.22	0.43	U	<	0.41	U
RDX	4.2	13 / 24	0.84		0.038	0.1	0.16	<	0.057	0.13	0.22	U	<	0.057	0.13	0.22	U	<	0.21	J
Tetryl	-	0 / 24	<	U	0.052	0.1	0.16	<	0.087	0.22	0.26	U	<	0.086	0.22	0.26	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-EXPLOSIVES

FIELD ID			PZ016			PZ016			PZ016			PZ016			PZ016			PZ016			PZ016		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/18/2013			3/14/2012			3/15/2011			3/18/2010			3/18/2009			3/18/2008			3/15/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	99	12 / 24	<	0.8	U	<	0.8	UJ	0.49	0.8	J	<	1	UJ	37	0.48		5.4	0.48		2.8	0.49	
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	12	13 / 24	<	0.8	U	<	0.8	UJ	0.34	0.8	J	<	0.4	UJ	8.2	0.48		2.4	0.48		0.89	0.49	
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.2	UJ	<	0.48	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	0.65 J	13 / 24	<	0.8	U	0.26	0.8	J	0.44	0.8	J	0.13	0.2	J	0.54	0.48		<	0.48	U	<	0.49	U
2-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	0.96	6 / 24	<	1.4	U	<	1.4	UJ	<	0.8	U	<	0.2	UJ	0.73	0.48		<	0.48	U	<	0.49	U
4-Nitrotoluene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	1	UJ	<	0.48	U	<	0.48	U	<	0.49	U
HMX	1.8	12 / 24	0.5	0.8	J	0.45	0.8	J	0.47	0.8	J	<	0.4	UJ	1.1	0.48		<	0.48	U	<	0.49	U
MNX	2.7 J	1 / 18	<	0.8	U	<	0.8	UJ	<	0.8	U	2.7	2	J	<	0.48	U	<	0.48	U	<	0.49	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.48	U	<	0.49	U
RDX	4.2	13 / 24	0.57	0.8	J	0.7	0.8	J	1.2	0.8		<	0.2	UJ	2	0.48		<	0.48	U	<	0.49	U
Tetryl	-	0 / 24	<	1.6	U	<	0.8	UJ	<	0.8	U	<	0.24	UJ	<	0.48	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-EXPLOSIVES

FIELD ID			PZ016			PZ016			PZ016			PZ016			PZ016			PZ016			PZ016		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/16/2006			3/16/2005			3/18/2004			3/18/2003			3/22/2002			3/23/2001			3/21/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	99	12 / 24	1.7	0.48		4.7	0.48		7.8	0.23		<	0.16	U	70	2.4		46	4		52	8	
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.23	U	<	0.16	U	<	0.16	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	12	13 / 24	0.62	0.48		1.7	0.48		3.3	0.23		4.1	0.16	J	9.8	1.0		6.5	0.8		8	1.5	
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.31	U	<	0.16	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.31	U	<	0.62	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.65 J	13 / 24	<	0.48	U	<	0.48	U	0.28	0.44	J	0.31	0.31	J	0.45	0.25		0.25	0.8	J	<	1	U
2-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.31	U	<	0.49	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.31	U	<	0.31	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	0.96	6 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.31	U	<	0.42	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.71	U	<	0.5	U	<	1.0	U	<	0.8	U	<	1.1	U
HMX	1.8	12 / 24	<	0.48	U	<	0.48	U	<	0.55	U	0.58	0.39	J	1.4	0.68		<	1	U	1.8	0.8	
MNX	2.7 J	1 / 18	<	0.48	U	<	0.48	U	<	0.23	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.23	U	<	0.16	U	<	0.28	U	<	0.8	U	<	0.8	U
RDX	4.2	13 / 24	<	0.48	U	<	0.48	U	0.54	0.23		0.88	0.16	J	3.5	0.40		<	0.8	U	3.6	0.8	
Tetryl	-	0 / 24	<	0.48	U	<	0.48	U	<	0.44	U	<	0.31	U	<	0.66	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-EXPLOSIVES

FIELD ID			PZ016			PZ016		
METHOD	Maximum	Detection	SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	4/2/1999			6/18/1998		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	99	12 / 24	99	8		10.2	1.00	
1,3-Dinitrobenzene	-	0 / 24	<	1.6	U	<	0.500	U
2,4,6-Trinitrotoluene	12	13 / 24	12	1.6		2.41	1.00	
2,4-Dinitrotoluene	-	0 / 24	<	1.6	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	1.6	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	0.65 J	13 / 24	0.65	1.6	J	<	0.500	U
2-Nitrotoluene	-	0 / 24	<	1.6	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	1.6	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	0.96	6 / 24	<	1.6	U	<	1.00	U
4-Nitrotoluene	-	0 / 24	<	1.6	U	<	1.00	U
HMX	1.8	12 / 24	1.4	1.6	J	<	0.500	U
MNX	2.7 J	1 / 18		NA			NA	
Nitrobenzene	-	0 / 24	<	1.6	U	<	0.500	U
RDX	4.2	13 / 24	4.2	1.6		<	1.00	U
Tetryl	-	0 / 24	<	1.6	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017-EXPLOSIVES

FIELD ID			PZ017R					PZ017R					PZ017R					PZ017R				
METHOD	Maximum	Detection	SW846 8330A					SW846 8330A					SW846 8330A					SW846 8330A				
COLLECT DATE	Detection	Frequency	5/26/2021					6/16/2020					6/11/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	82	19 / 20	1.1		0.088	0.21	0.22	1.1		0.09	0.21	0.23	4.5	J	0.2	0.41	1	6.3		0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 20	<	U	0.038	0.1	0.11	<	U	0.04	0.11	0.12	<	UJ	0.09	0.2	0.41	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	100	20 / 20	10		0.047	0.1	0.11	11		0.048	0.11	0.12	19	J	0.16	0.41	0.41	17		0.52	0.1	1.6
2,4-Dinitrotoluene	0.56	5 / 20	<	U	0.029	0.083	0.1	<	U	0.029	0.086	0.11	<	UJ	0.085	0.2	0.41	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	0.36 J	1 / 20	0.36	J	0.042	0.083	0.1	<	U	0.043	0.086	0.11	<	UJ	0.065	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	13	20 / 20	3		0.053	0.1	0.11	4.9		0.054	0.11	0.12	4.8	J	0.051	0.12	0.2	4.1		0.031	0.1	0.16
2-Nitrotoluene	2.1	1 / 20	<	UJ	0.089	0.21	0.22	<	U	0.092	0.21	0.23	<	UJ	0.087	0.2	0.41	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 20	<	UJ	0.2	0.42	0.42	<	U	0.21	0.43	0.43	<	UJ	0.2	0.41	0.41	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	11 J	18 / 20	2.7	J	0.06	0.13	0.16	5.9		0.062	0.13	0.16	4.3	J	0.058	0.12	0.2	4.3		0.052	0.1	0.16
4-Nitrotoluene	-	0 / 20	<	UJ	0.1	0.42	0.43	<	U	0.11	0.43	0.44	<	UJ	0.2	0.41	1	<	U	0.092	0.21	0.52
HMX	24 J	18 / 20	1.6	J	0.091	0.21	0.22	1.5		0.094	0.21	0.23	0.78	J	0.089	0.2	0.41	<	U	0.038	0.1	0.52
MNX	1.2	5 / 17	<	U	0.16	0.42	2.1	<	U	0.17	0.43	2.1	<	UJ	0.16	0.41	2	1.2		0.029	0.1	0.16
Nitrobenzene	-	0 / 20	<	U	0.095	0.21	0.22	<	U	0.098	0.21	0.23	<	UJ	0.092	0.2	0.41	<	U	0.052	0.1	0.16
RDX	120 J	20 / 20	2.1		0.054	0.21	0.22	1.4		0.055	0.21	0.23	1	J	0.16	0.41	0.41	1.8		0.038	0.1	0.16
Tetryl	-	0 / 20	<	U	0.033	0.1	0.11	<	U	0.034	0.11	0.12	<	UJ	0.08	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
*PZ017 was abandoned and replaced by PZ017R in 2009.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017-EXPLOSIVES

FIELD ID			PZ017R					PZ017R					PZ017R					PZ017R		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	4/1/2017					8/9/2016					8/13/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	82	19 / 20	16	J	0.16	0.52	0.78	11	0.22	0.43	1.1		15	0.21	0.42	1..1		20	1.1	
1,3-Dinitrobenzene	-	0 / 20	<	U	0.052	0.1	0.16	<	0.096	0.22	0.43	U	<	0.094	0.21	0.42	U	<	0.44	U
2,4,6-Trinitrotoluene	100	20 / 20	25	J	0.26	0.52	0.78	22	0.078	0.22	0.43		24	0.077	0.21	0.42		29	0.44	
2,4-Dinitrotoluene	0.56	5 / 20	0.052	J	0.052	0.1	0.13	<	0.091	0.22	0.43	U	<	0.089	0.21	0.42	U	<	0.44	U
2,6-Dinitrotoluene	0.36 J	1 / 20	<	U	0.052	0.1	0.13	<	0.07	0.22	0.22	U	<	0.068	0.21	0.22	U	<	0.22	U
2-Amino-4,6-dinitrotoluene	13	20 / 20	3.6	J	0.031	0.1	0.16	3	0.055	0.13	0.22		3.5	0.054	0.13	0.21		3.9	0.22	
2-Nitrotoluene	2.1	1 / 20	<	U	0.091	0.21	0.52	<	0.092	0.22	0.43	U	<	0.090	0.21	0.42	U	<	0.44	U
3-Nitrotoluene	-	0 / 20	<	U	0.059	0.21	0.52	<	0.09	0.22	0.43	U	<	0.088	0.21	0.42	U	<	0.44	U
4-Amino-2,6-dinitrotoluene	11 J	18 / 20	3.6	J	0.052	0.1	0.16	<	0.062	0.13	0.22	U	2.9	0.061	0.13	0.21		3.6	0.22	
4-Nitrotoluene	-	0 / 20	<	U	0.091	0.21	0.52	<	0.22	0.43	1.1	U	<	0.21	0.43	1.1	U	<	1.1	U
HMX	24 J	18 / 20	1.8	J	0.037	0.1	0.16	1.6	0.095	0.22	0.43		2.4	0.093	0.21	0.42		3	0.44	
MNX	1.2	5 / 17	<	U	0.029	0.1	0.52	<	0.39	0.39	2.2	U	0.39	0.38	0.38	2.1	J	<	2.2	U
Nitrobenzene	-	0 / 20	<	U	0.052	0.1	0.16	<	0.098	0.22	0.43	U	<	0.096	0.21	0.42	U	<	0.44	U
RDX	120 J	20 / 20	3	J	0.037	0.1	0.16	3.4	0.057	0.13	0.22		6.0	0.055	0.13	0.21		6.8	0.22	
Tetryl	-	0 / 20	<	U	0.052	0.1	0.16	<	0.086	0.22	0.26	U	<	0.084	0.21	0.25	U	<	0.26	U

Notes:
*PZ017 was abandoned and replaced by PZ017R in 2009.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017-EXPLOSIVES

FIELD ID			PZ017R			PZ017R			PZ017R			PZ017R			PZ017			PZ017			PZ017		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012			3/14/2011			3/16/2010			None			3/12/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	82	19 / 20	24.1	0.8	J	12.5	0.8		15.1	0.8		16	1	J				56	0.97		72	0.95	
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U				<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	100	20 / 20	30.9	0.8	J	23.5	0.8		33.8	0.8		41	0.8	J				70	0.97		79	0.95	
2,4-Dinitrotoluene	0.56	5 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U				<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	0.36 J	1 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	**Not Sampled**			<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	13	20 / 20	5.4	0.8	J	4.5	0.8		6.8	0.8		10	0.2	J	**in 2009**			10	0.49		13	0.48	
2-Nitrotoluene	2.1	1 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U				<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U				<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	11 J	18 / 20	4.6	1.4	J	2.9	1.4		4.5	0.8		6.6	0.2	J				9.4	0.49		8.2	0.48	
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U				<	0.49	U	<	0.48	U
HMX	24 J	18 / 20	3.1	0.8	J	2.1	0.8		3	0.8		4.2	0.4	J				13	0.49	J	17	0.48	
MNX	1.2	5 / 17	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U				<	0.49	U	0.56	0.48	
Nitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U				<	0.49	U	<	0.48	U
RDX	120 J	20 / 20	9.3	0.8	J	8	0.8		10.2	0.8		10	0.2	J				50	0.49		59	0.95	
Tetryl	-	0 / 20	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U				<	0.49	U	<	0.48	U

Notes:
*PZ017 was abandoned and replaced by PZ017R in 2009.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017-EXPLOSIVES

FIELD ID			PZ017			PZ017			PZ017			PZ017			PZ017			PZ017		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2006			3/15/2005			3/16/2004			3/19/2003			3/19/2002			3/22/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	82	19 / 20	82	4.8		72	4.8		61	1.6		<	0.16	U	10	2.9	J	13	40.0	J
1,3-Dinitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.19	U	<	0.8	U
2,4,6-Trinitrotoluene	100	20 / 20	91	4.8		84	4.8		100	8		100	16	J	78	2.4	J	100	40.0	
2,4-Dinitrotoluene	0.56	5 / 20	<	0.48	U	0.35	0.48	J	0.56	0.31		<	0.8	UJ	0.39	0.19	J	0.25	0.8	J
2,6-Dinitrotoluene	0.36 J	1 / 20	<	0.48	U	<	0.48	U	<	0.31	U	<	0.34	UJ	<	0.74	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	13	20 / 20	11	0.48		10	0.48	P	12	0.31		12	0.31	J	12	0.30	J	12	0.8	
2-Nitrotoluene	2.1	1 / 20	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.59	U	2.1	0.8	
3-Nitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.37	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	11 J	18 / 20	8.9	0.48		8.1	0.48		8.7	0.31		8.4	0.31	J	11	0.50	J	<	0.8	U
4-Nitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.5	U	<	0.5	U	<	1.2	U	<	0.8	U
HMX	24 J	18 / 20	18	0.48		18	0.48		23	3.9		24	3.9	J	20	8.2	J	<	50.0	U
MNX	1.2	5 / 17	<	0.48	U	0.33	0.48	J	0.43	0.16			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U	<	0.34	U	<	0.8	U
RDX	120 J	20 / 20	71	4.8		85	4.8		110	8		120	16	J	70	4.8	J	93	40.0	
Tetryl	-	0 / 20	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.79	U	<	0.8	U

Notes:
*PZ017 was abandoned and replaced by PZ017R in 2009.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-EXPLOSIVES

FIELD ID			PZ018					PZ018					PZ018					PZ018				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/16/2020					6/11/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	74	17 / 21	<	U	0.091	0.22	0.23	<	U	0.091	0.22	0.23	15	J	0.2	0.39	0.99	15		0.16	0.52	0.79
1,3-Dinitrobenzene	71	1 / 21	<	U	0.04	0.11	0.12	<	U	0.04	0.11	0.12	<	UJ	0.088	0.2	0.39	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	100	20 / 21	4.6		0.049	0.11	0.12	<	U	0.049	0.11	0.12	6.3	J	0.16	0.39	0.39	6.8		0.052	0.1	0.16
2,4-Dinitrotoluene	0.47 J	3 / 21	<	U	0.03	0.086	0.11	<	U	0.03	0.087	0.11	<	UJ	0.083	0.2	0.39	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 21	<	U	0.043	0.086	0.11	<	U	0.043	0.087	0.11	<	UJ	0.064	0.2	0.2	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	8.3	21 / 21	2.5		0.055	0.11	0.12	0.28	J	0.055	0.11	0.12	2.3	J	0.05	0.12	0.2	2		0.031	0.1	0.16
2-Nitrotoluene	1.8	1 / 21	<	UJ	0.092	0.22	0.23	<	U	0.093	0.22	0.23	<	UJ	0.084	0.2	0.39	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 21	<	UJ	0.21	0.43	0.43	<	U	0.21	0.43	0.43	<	UJ	0.19	0.39	0.39	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	6.6 J	19 / 21	4.9	J	0.062	0.13	0.16	0.17	J	0.063	0.13	0.16	2.2	J	0.057	0.12	0.2	2.1		0.052	0.1	0.16
4-Nitrotoluene	-	0 / 21	<	UJ	0.11	0.43	0.44	<	U	0.11	0.43	0.44	<	UJ	0.2	0.39	0.99	<	U	0.092	0.21	0.52
HMX	13	19 / 21	<	U	0.095	0.22	0.23	0.89	J	0.095	0.22	0.23	0.54	J	0.086	0.2	0.39	1.2		0.029	0.1	0.16
MNX	0.19	1 / 18	<	U	0.17	0.43	2.2	<	U	0.17	0.43	2.2	<	UJ	0.15	0.39	2	<	U	0.038	0.1	0.52
Nitrobenzene	-	0 / 21	<	U	0.098	0.22	0.23	<	U	0.099	0.22	0.23	<	UJ	0.09	0.2	0.39	<	U	0.052	0.1	0.16
RDX	69	20 / 21	<	U	0.056	0.22	0.23	1		0.056	0.22	0.23	1.1	J	0.16	0.39	0.39	1.6		0.038	0.1	0.16
Tetryl	-	0 / 21	<	U	0.034	0.11	0.12	<	U	0.034	0.11	0.12	<	UJ	0.078	0.2	0.24	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-EXPLOSIVES

FIELD ID			PZ018					PZ018					PZ018					PZ018		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/30/2017					8/9/2016					8/12/2015					8/15/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	74	17 / 21	15	J	0.16	0.52	0.78	0.65	0.21	0.43	1.1	J	14	0.22	0.43	1.1		21	1.1	
1,3-Dinitrobenzene	71	1 / 21	<	U	0.052	0.1	0.16	<	0.095	0.21	0.43	U	<	0.096	0.22	0.43	U	<	0.44	U
2,4,6-Trinitrotoluene	100	20 / 21	10	J	0.052	0.1	0.16	0.47	0.077	0.21	0.43	J	14	0.078	0.22	0.43		11	0.44	
2,4-Dinitrotoluene	0.47 J	3 / 21	<	U	0.052	0.1	0.14	<	0.09	0.21	0.43	U	<	0.091	0.22	0.43	U	<	0.44	U
2,6-Dinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.14	<	0.069	0.21	0.21	U	<	0.070	0.22	0.22	U	<	0.22	U
2-Amino-4,6-dinitrotoluene	8.3	21 / 21	2.3	J	0.031	0.1	0.16	0.096	0.054	0.13	0.21	J	2.0	0.055	0.13	0.22		1.7	0.22	
2-Nitrotoluene	1.8	1 / 21	<	U	0.091	0.21	0.52	<	0.091	0.21	0.43	U	<	0.093	0.22	0.43	U	<	0.44	U
3-Nitrotoluene	-	0 / 21	<	U	0.059	0.21	0.52	<	0.089	0.21	0.43	U	<	0.090	0.22	0.43	U	<	0.44	U
4-Amino-2,6-dinitrotoluene	6.6 J	19 / 21	2.3	J	0.052	0.1	0.16	<	0.062	0.13	0.21	U	1.5	0.063	0.13	0.22		1.7	0.22	
4-Nitrotoluene	-	0 / 21	<	U	0.091	0.21	0.52	<	0.21	0.43	1.1	U	<	0.22	0.43	1.1	U	<	1.1	U
HMX	13	19 / 21	1.7	J	0.037	0.1	0.16	<	0.094	0.21	0.43	U	1.2	0.095	0.22	0.43		2	0.44	J
MNX	0.19	1 / 18	<	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.39	0.39	2.2	U	<	2.2	U
Nitrobenzene	-	0 / 21	<	U	0.052	0.1	0.16	<	0.097	0.21	0.43	U	<	0.10	0.22	0.43	U	<	0.44	U
RDX	69	20 / 21	2.6	J	0.037	0.1	0.16	0.098	0.056	0.13	0.21		2.5	0.057	0.13	0.22		4.8	0.22	
Tetryl	-	0 / 21	<	U	0.052	0.1	0.16	<	0.085	0.21	0.26	U	<	0.086	0.22	0.26	U	<	0.27	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-EXPLOSIVES

FIELD ID			PZ018			PZ018			PZ018			PZ018			PZ018			PZ018			PZ018		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012			3/14/2011			3/16/2010			3/17/2009			3/11/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	74	17 / 21	25.5	0.8		34.6	0.8		30.3	0.8		39	2		46	0.48		60	0.96		67	0.98	
1,3-Dinitrobenzene	71	1 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	100	20 / 21	14.1	0.8		16.8	0.8		19.3	0.8		25	0.8		32	0.48		32	0.48		40	0.49	
2,4-Dinitrotoluene	0.47 J	3 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	8.3	21 / 21	2	0.8		1.7	0.8		2.4	0.8		4.1	0.2		5.5	0.48		4.9	0.48		6	0.49	
2-Nitrotoluene	1.8	1 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	6.6 J	19 / 21	1.6	1.4		1.1	1.4	J	1.3	0.8		1.7	0.2		4.7	0.48		4	0.48		4.2	0.49	
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.49	U
HMX	13	19 / 21	1.6	0.8		1.8	0.8		2.3	0.8		5.2	0.4		6.7	0.48		8.7	0.48	J	11	0.49	
MNX	0.19	1 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.49	U
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
RDX	69	20 / 21	4.2	0.8		5.5	0.8		6.2	0.8		16	0.2		23	0.48		33	0.48		46	0.49	
Tetryl	-	0 / 21	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-EXPLOSIVES

FIELD ID			PZ018			PZ018			PZ018			PZ018			PZ018			PZ018		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2006			3/15/2005			3/15/2004			3/19/2003			3/19/2002			3/22/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	74	17 / 21	64	4.8		73	4.8		74	1.6		<	0.23	U	70	3.6		<	0.8	U
1,3-Dinitrobenzene	71	1 / 21	<	0.48	U	<	0.48	U	<	0.16	U	<	0.23	U	<	0.24	U	71	40.0	
2,4,6-Trinitrotoluene	100	20 / 21	52	4.8		58	4.8		74	1.6		85	2.3	J	66	3.0		100	40.0	
2,4-Dinitrotoluene	0.47 J	3 / 21	<	0.48	U	<	0.48	U	0.29	0.31	J	<	0.52	UJ	0.31	0.24		0.47	0.8	J
2,6-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.31	U	<	0.44	U	<	0.93	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	8.3	21 / 21	5.4	0.48		5.3	0.48	P	6.4	0.31		7.3	0.44	J	5.2	0.38		8.3	0.8	
2-Nitrotoluene	1.8	1 / 21	<	0.48	U	<	0.48	U	<	0.31	U	<	0.44	U	<	0.74	U	1.8	0.8	
3-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.31	U	<	0.44	U	<	0.46	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	6.6 J	19 / 21	4.4	0.48		4.8	0.48		5.1	0.31		6.6	0.44	J	4.0	0.63		<	0.8	U
4-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.5	U	<	0.72	U	<	1.5	U	<	0.8	U
HMX	13	19 / 21	12	0.48		13	0.48		13	3.9		12	5.6	J	10	1.0		9.7	1.0	
MNX	0.19	1 / 18	<	0.48	U	<	0.48	U	0.19	0.16			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.16	U	<	0.23	U	<	0.42	U	<	0.8	U
RDX	69	20 / 21	50	4.8		69	4.8		68	1.6		60	2.3	J	54	6.0		54	40.0	
Tetryl	-	0 / 21	<	0.48	U	<	0.48	U	<	0.31	U	<	0.44	U	<	0.99	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-EXPLOSIVES

FIELD ID			PZ019					PZ019					PZ019					PZ019				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/24/2021					6/16/2020					6/10/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 21	<	U	0.086	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.2	0.39	0.98	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 21	<	U	0.038	0.1	0.11	<	U	0.039	0.11	0.12	<	U	0.087	0.2	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 21	<	U	0.046	0.1	0.11	<	U	0.047	0.11	0.12	<	U	0.16	0.39	0.39	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 21	<	U	0.028	0.082	0.1	<	U	0.029	0.084	0.11	<	U	0.082	0.2	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 21	<	U	0.041	0.082	0.1	<	U	0.042	0.084	0.11	<	U	0.063	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	UJ	0.052	0.1	0.11	<	U	0.053	0.11	0.12	<	U	0.05	0.12	0.2	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 21	<	UJ	0.087	0.2	0.21	<	U	0.09	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 21	<	UJ	0.2	0.41	0.41	<	U	0.2	0.42	0.42	<	UJ	0.19	0.39	0.39	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	U	0.059	0.12	0.15	<	U	0.061	0.13	0.16	<	U	0.057	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 21	<	UJ	0.1	0.41	0.42	<	U	0.11	0.42	0.43	<	UJ	0.2	0.39	0.98	<	U	0.09	0.2	0.51
HMX	-	0 / 21	<	U	0.089	0.2	0.21	<	U	0.092	0.21	0.22	<	U	0.086	0.2	0.39	<	U	0.028	0.1	0.15
MNX	-	0 / 18	<	U	0.16	0.41	2	<	U	0.16	0.42	2.1	<	U	0.15	0.39	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 21	<	U	0.093	0.2	0.21	<	U	0.096	0.21	0.22	<	U	0.09	0.2	0.39	<	U	0.051	0.1	0.15
RDX	0.83	3 / 21	<	U	0.053	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.16	0.39	0.39	<	U	0.037	0.1	0.15
Tetryl	-	0 / 21	<	U	0.032	0.1	0.11	<	U	0.033	0.11	0.12	<	U	0.078	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-EXPLOSIVES

FIELD ID			PZ019					PZ019					PZ019					PZ019		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/10/2016					8/11/2015					8/8/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 21	<	U	0.032	0.1	0.15	<	0.21	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1.1	U
1,3-Dinitrobenzene	-	0 / 21	<	U	0.052	0.1	0.15	<	0.095	0.21	0.43	U	<	0.093	0.21	0.42	U	<	0.44	U
2,4,6-Trinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.15	<	0.078	0.21	0.43	U	<	0.076	0.21	0.42	U	<	0.44	U
2,4-Dinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.13	<	0.09	0.21	0.43	U	<	0.088	0.21	0.42	U	<	0.44	U
2,6-Dinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.13	<	0.069	0.21	0.21	U	<	0.068	0.21	0.21	U	<	0.22	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	U	0.031	0.1	0.15	<	0.054	0.13	0.21	U	<	0.053	0.13	0.21	U	<	0.22	U
2-Nitrotoluene	-	0 / 21	<	U	0.091	0.21	0.52	<	0.092	0.21	0.43	U	<	0.090	0.21	0.42	U	<	0.44	U
3-Nitrotoluene	-	0 / 21	<	U	0.059	0.21	0.52	<	0.09	0.21	0.43	U	<	0.087	0.21	0.42	U	<	0.44	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.15	<	0.062	0.13	0.21	U	<	0.060	0.13	0.21	U	<	0.22	U
4-Nitrotoluene	-	0 / 21	<	U	0.091	0.21	0.52	<	0.21	0.43	1.1	U	<	0.21	0.42	1.0	U	<	1.1	U
HMX	-	0 / 21	<	U	0.037	0.1	0.15	<	0.094	0.21	0.43	U	<	0.092	0.21	0.42	U	<	0.44	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.38	0.38	2.1	U	<	0.38	0.38	2.1	U	<	2.2	U
Nitrobenzene	-	0 / 21	<	U	0.052	0.1	0.15	<	0.098	0.21	0.43	U	<	0.095	0.21	0.42	U	<	0.44	U
RDX	0.83	3 / 21	<	U	0.037	0.1	0.15	<	0.056	0.13	0.21	U	<	0.055	0.13	0.21	U	<	0.22	U
Tetryl	-	0 / 21	<	U	0.052	0.1	0.15	<	0.085	0.21	0.26	U	<	0.083	0.21	0.25	U	<	0.27	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-EXPLOSIVES

FIELD ID			PZ019			PZ019			PZ019			PZ019			PZ019			PZ019			PZ019		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/7/2012			3/14/2011			3/11/2010			3/19/2009			3/11/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.49	U
HMX	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.49	U
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
RDX	0.83	3 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	0.83	0.49	
Tetryl	-	0 / 21	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-EXPLOSIVES

FIELD ID			PZ019			PZ019			PZ019			PZ019			PZ019			PZ019		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/15/2006			3/15/2005			3/15/2004			3/17/2003			3/20/2002			3/22/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.18	U	<	0.21	U	<	0.33	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.18	U	<	0.21	U	<	0.22	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.18	U	<	0.21	U	<	0.28	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.22	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.86	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.35	U	<	0.8	U
2-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.68	U	<	0.8	U
3-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.43	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.58	U	<	0.8	U
4-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.55	U	<	0.66	U	<	1.4	U	<	0.8	U
HMX	-	0 / 21	<	0.48	U	<	0.48	U	<	0.43	U	<	0.51	U	<	0.94	U	<	1	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.18	U		NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.18	U	<	0.21	U	<	0.39	U	<	0.8	U
RDX	0.83	3 / 21	<	0.48	U	0.61	0.48		0.3	0.18		<	0.21	U	<	0.55	U	<	0.8	U
Tetryl	-	0 / 21	<	0.48	U	<	0.48	U	<	0.34	U	<	0.41	U	<	0.91	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-EXPLOSIVES

FIELD ID			PZ020					PZ020					PZ020					PZ020				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	29	20 / 21	2.2		0.087	0.21	0.22	1.5		0.088	0.21	0.22	2.3		0.19	0.39	0.97	3.2		0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 21	<	U	0.038	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.086	0.19	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	85	21 / 21	3.8		0.047	0.1	0.11	2.2		0.047	0.1	0.11	3		0.16	0.39	0.39	5.9		0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 21	<	U	0.028	0.083	0.1	<	U	0.029	0.083	0.1	<	U	0.081	0.19	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 21	<	U	0.042	0.083	0.1	<	U	0.042	0.083	0.1	<	U	0.063	0.19	0.19	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	11	20 / 21	2.5		0.053	0.1	0.11	<	U	0.053	0.1	0.11	1.8		0.049	0.12	0.19	3.3		0.031	0.1	0.15
2-Nitrotoluene	1.6	1 / 21	<	UJ	0.089	0.21	0.22	<	U	0.089	0.21	0.22	<	UJ	0.083	0.19	0.39	<	U	0.09	0.21	0.51
3-Nitrotoluene	-	0 / 21	<	UJ	0.2	0.42	0.42	<	U	0.2	0.42	0.42	<	UJ	0.19	0.39	0.39	<	U	0.059	0.21	0.51
4-Amino-2,6-dinitrotoluene	5.6 J	19 / 21	2.7		0.06	0.12	0.16	<	U	0.06	0.12	0.16	1.9		0.056	0.12	0.19	3.1		0.051	0.1	0.15
4-Nitrotoluene	-	0 / 21	<	UJ	0.1	0.42	0.43	<	U	0.1	0.42	0.43	<	UJ	0.19	0.39	0.97	<	U	0.09	0.21	0.51
HMX	4.5	19 / 21	0.73		0.091	0.21	0.22	<	U	0.091	0.21	0.22	0.38	J	0.085	0.19	0.39	0.59		0.029	0.1	0.15
MNX	0.15 J	1 / 18	<	U	0.16	0.42	2.1	<	U	0.16	0.42	2.1	<	U	0.15	0.39	1.9	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 21	<	U	0.094	0.21	0.22	<	U	0.095	0.21	0.22	<	U	0.088	0.19	0.39	<	U	0.051	0.1	0.15
RDX	13	19 / 21	0.68	J	0.053	0.21	0.22	0.58		0.054	0.21	0.22	0.37	J	0.15	0.39	0.39	0.62		0.037	0.1	0.15
Tetryl	-	0 / 21	<	U	0.033	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.077	0.19	0.23	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-EXPLOSIVES

FIELD ID			PZ020					PZ020					PZ020					PZ020		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/31/2017					8/17/2015					8/17/2015					8/8/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	29	20 / 21	3.3		0.032	0.1	0.16	3.6	0.23	0.47	1.2		3.9	0.21	0.42	1.0	J	3.8	1	J
1,3-Dinitrobenzene	-	0 / 21	<	U	0.052	0.1	0.16	<	0.1	0.23	0.47	U	<	0.093	0.21	0.42	UJ	<	0.42	UJ
2,4,6-Trinitrotoluene	85	21 / 21	5		0.052	0.1	0.16	4.3	0.085	0.23	0.47		3.9	0.076	0.21	0.42	J	3	0.42	J
2,4-Dinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.14	<	0.098	0.23	0.47	U	<	0.087	0.21	0.42	UJ	<	0.42	UJ
2,6-Dinitrotoluene	-	0 / 21	<	U	0.052	0.1	0.14	<	0.076	0.23	0.23	U	<	0.067	0.21	0.21	UJ	<	0.21	UJ
2-Amino-4,6-dinitrotoluene	11	20 / 21	3.2		0.031	0.1	0.16	2.5	0.059	0.14	0.23		3.5	0.053	0.13	0.21	J	2.1	0.21	J
2-Nitrotoluene	1.6	1 / 21	<	U	0.092	0.21	0.52	<	0.1	0.23	0.47	U	<	0.089	0.21	0.42	UJ	<	0.42	UJ
3-Nitrotoluene	-	0 / 21	<	U	0.059	0.21	0.52	<	0.098	0.23	0.47	U	<	0.087	0.21	0.42	UJ	<	0.42	UJ
4-Amino-2,6-dinitrotoluene	5.6 J	19 / 21	3.4		0.052	0.1	0.16	2.3	0.068	0.14	0.23		4.8	0.060	0.13	0.21	J	2.6	0.21	J
4-Nitrotoluene	-	0 / 21	<	U	0.092	0.21	0.52	<	0.23	0.47	1.2	U	<	0.21	0.42	1.0	UJ	<	1	UJ
HMX	4.5	19 / 21	0.58		0.038	0.1	0.16	<	0.1	0.23	0.47	U	0.49	0.091	0.21	0.42	J	0.65	0.42	J
MNX	0.15 J	1 / 18	<	U	0.029	0.1	0.52	<	0.42	0.42	2.3	U	<	0.37	0.37	2.1	U	<	2.1	UJ
Nitrobenzene	-	0 / 21	<	U	0.052	0.1	0.16	<	0.11	0.23	0.47	U	<	0.095	0.21	0.42	U	<	0.42	UJ
RDX	13	19 / 21	0.62		0.038	0.1	0.16	0.52	0.061	0.14	0.23		1.1	0.055	0.13	0.21		1.1	0.21	J
Tetryl	-	0 / 21	<	U	0.052	0.1	0.16	<	0.093	0.23	0.28	U	<	0.08	0.21	0.25	UJ	<	0.25	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-EXPLOSIVES

FIELD ID			PZ020			PZ020			PZ020			PZ020			PZ020			PZ020			PZ020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/13/2013			3/12/2012			3/15/2011			3/16/2010			3/13/2009			3/13/2008			3/12/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	29	20 / 21	6.3	0.8	J	7.1	0.8		6.3	0.8		10	1		7.3	0.48		12	0.49		18	0.49	
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,4,6-Trinitrotoluene	85	21 / 21	4.4	0.8	J	4.7	0.8		5.9	0.8		8	0.4		8.6	0.48		10	0.49		13	0.49	
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	11	20 / 21	2.4	0.8	J	2.6	0.8		2.8	0.8		4.6	0.2		4.3	0.48		4.5	0.49		5.5	0.49	
2-Nitrotoluene	1.6	1 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	5.6 J	19 / 21	2.6	1.4	J	2.1	1.4		2.1	0.8		2.4	0.2		3.3	0.48		3.5	0.49		3.7	0.49	
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.49	U
HMX	4.5	19 / 21	0.94	0.8	J	0.93	0.8		0.7	0.8	J	1.2	0.4		1.4	0.48		1.5	0.49		2.1	0.49	
MNX	0.15 J	1 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.49	U
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.49	U
RDX	13	19 / 21	<	0.8	U	2.5	0.8	J	2.4	0.8		2.3	0.2		<	0.48	U	4.1	0.49		4.8	0.49	
Tetryl	-	0 / 21	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-EXPLOSIVES

FIELD ID			PZ020			PZ020			PZ020			PZ020			PZ020			PZ020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2006			3/15/2005			3/16/2004			3/18/2003			3/20/2002			3/22/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	29	20 / 21	19	0.48		23	0.48		27	1.9		<	0.18	U	27	1.4	J	29	16.0	
1,3-Dinitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.19	U	<	0.18	U	<	0.19	U	<	0.8	U
2,4,6-Trinitrotoluene	85	21 / 21	17	0.48		16	0.48		23	1.9		22	1.8	J	42	1.2	J	85	16.0	
2,4-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.36	U	<	0.36	U	<	0.19	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.36	U	<	0.36	U	<	0.74	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	11	20 / 21	4.6	0.48		4.2	0.48	P	4.6	0.36		5.6	0.36	J	8.0	0.30	J	11	0.8	
2-Nitrotoluene	1.6	1 / 21	<	0.48	U	<	0.48	U	<	0.36	U	<	0.36	U	<	0.59	U	1.6	0.8	
3-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.36	U	<	0.36	U	<	0.37	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	5.6 J	19 / 21	3.8	0.48		3.5	0.48		3.2	0.36		3.4	0.36	J	5.6	0.50	J	<	0.8	U
4-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.58	U	<	0.58	U	<	1.20	U	<	0.8	U
HMX	4.5	19 / 21	1.9	0.48		2.1	0.48		2.5	0.46		2.4	0.45	J	3.4	0.82	J	4.5	1.0	
MNX	0.15 J	1 / 18	<	0.48	U	<	0.48	U	0.15	0.19	J		NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.19	U	<	0.18	U	<	0.34	U	<	0.8	U
RDX	13	19 / 21	4.5	0.48		4.6	0.48		7.7	0.19		8.8	0.18	J	8.9	2.4	J	13	0.8	
Tetryl	-	0 / 21	<	0.48	U	<	0.48	U	<	0.36	U	<	0.36	U	<	0.79	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

E.1 Explosives

E.1.3 OU1 OFF-POST CA WELLS

WELL	TABLE
CA210	E.1.3-1
CA211	E.1.3-2
CA212	E.1.3-3
CA213	E.1.3-4
CA220	E.1.3-5
CA221	E.1.3-6
CA222	E.1.3-7
CA230	E.1.3-8
CA231	E.1.3-9
CA232	E.1.3-10
CA240	E.1.3-11
CA241	E.1.3-12
CA242	E.1.3-13
CA250	E.1.3-14
CA251	E.1.3-15
CA252	E.1.3-16
CA253	E.1.3-17
CA260	E.1.3-18
CA261	E.1.3-19
CA262	E.1.3-20
CA270	E.1.3-21
CA271	E.1.3-22
CA272	E.1.3-23
CA273	E.1.3-24
CA280	E.1.3-25
CA281	E.1.3-26
CA282	E.1.3-27
CA290/CA290R	E.1.3-28
CA291/CA291R	E.1.3-29
CA292/CA292R	E.1.3-30
CA310	E.1.3-31
CA311	E.1.3-32
CA312	E.1.3-33
CA313	E.1.3-34
CA322	E.1.3-35
CA330	E.1.3-36
CA331	E.1.3-37
CA332	E.1.3-38
CA342	E.1.3-39
CA343	E.1.3-40

TABLE E.1.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-EXPLOSIVES

FIELD ID			CA210					CA210					CA210			CA210			CA210		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/9/2020					None			None			3/9/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 19	<	U	0.086	0.2	0.21	<	U	0.09	0.21	0.22							<	0.8	U
1,3-Dinitrobenzene	-	0 / 19	<	U	0.038	0.1	0.11	<	U	0.039	0.11	0.12							<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 19	<	U	0.046	0.1	0.11	<	U	0.048	0.11	0.12							<	0.8	U
2,4-Dinitrotoluene	-	0 / 19	<	U	0.028	0.082	0.1	<	U	0.029	0.085	0.11							<	0.8	U
2,6-Dinitrotoluene	-	0 / 19	<	U	0.041	0.082	0.1	<	U	0.043	0.085	0.11	**Not Sampled**			**No 2013 Sample**			<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 19	<	U	0.052	0.1	0.11	<	UJ	0.054	0.11	0.12	**in 2014 through 2019**			**Well Dry**			<	0.8	U
2-Nitrotoluene	-	0 / 15	<	U	0.087	0.2	0.21	<	UJ	0.091	0.21	0.22							<	0.8	U
3-Nitrotoluene	-	0 / 15	<	U	0.2	0.41	0.41	<	UJ	0.21	0.43	0.43							<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	U	0.059	0.12	0.15	<	UJ	0.062	0.13	0.16							<	1.4	U
4-Nitrotoluene	-	0 / 15	<	U	0.1	0.41	0.42	<	UJ	0.11	0.43	0.44							<	0.8	U
HMX	2.74	6 / 19	<	U	0.089	0.41	2	<	U	0.093	0.21	0.22							<	0.8	U
MNX	-	0 / 7	<	U	0.16	0.41	2	<	U	0.16	0.43	2.1							<	0.8	U
Nitrobenzene	-	0 / 19	<	U	0.093	0.2	0.21	<	U	0.097	0.21	0.22							<	0.8	U
RDX	2.64	6 / 19	<	U	0.052	0.2	0.21	<	U	0.055	0.21	0.22							<	0.8	U
Tetryl	-	0 / 17	<	U	0.032	0.1	0.11	<	U	0.034	0.11	0.12							<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-EXPLOSIVES

FIELD ID			CA210			CA210			CA210			CA210			CA210			CA210			CA210		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/11/2010			3/5/2009			3/7/2008			None			None			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 19	<	0.8	U	<	1	U	<	0.49	U	<	0.47	U									
1,3-Dinitrobenzene	-	0 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
2,4,6-Trinitrotoluene	-	0 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
2,4-Dinitrotoluene	-	0 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
2,6-Dinitrotoluene	-	0 / 19	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**		
2-Amino-4,6-dinitrotoluene	-	0 / 19	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U	**Well Dry**			**Well Dry**			**Well Dry**		
2-Nitrotoluene	-	0 / 15	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
3-Nitrotoluene	-	0 / 15	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U									
4-Nitrotoluene	-	0 / 15	<	0.8	U	<	1	U	<	0.49	U	<	0.47	U									
HMX	2.74	6 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
MNX	-	0 / 7	<	0.8	U	<	2	U	<	0.49	U	<	0.47	U									
Nitrobenzene	-	0 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.47	U									
RDX	2.64	6 / 19	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U									
Tetryl	-	0 / 17	<	0.8	U	<	0.24	U	<	0.49	U	<	0.47	U									

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-EXPLOSIVES

FIELD ID			CA210			CA210			CA210			CA210			CA210			CA210			CA210		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	None			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 19				<	0.27	U	<	0.58	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 19				<	0.18	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 19				<	0.22	U	<	0.48	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 19				<	0.18	U	<	0.39	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 19	**No 2004 Sample**			<	0.69	U	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 19	**Well Dry**			<	0.28	U	<	0.60	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 15				<	0.55	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 15				<	0.35	U	<	0.75	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 16				<	0.47	U	<	1.0	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 15				<	1.1	U	<	2.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	2.74	6 / 19				<	0.76	U	<	1.6	U	<	1	U	0.51	0.8	J	1.08	0.8		<	0.500	U
MNX	-	0 / 7					NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 19				<	0.31	U	<	0.68	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	2.64	6 / 19				0.15	0.45	J	<	0.97	U	<	0.8	U	<	0.8	U	0.55	0.8	J	<	1.00	U
Tetryl	-	0 / 17				<	0.74	U	<	1.6	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-EXPLOSIVES

FIELD ID			CA210			CA210			CA210			CA210			CA210			CA210		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/2/1997			12/10/1996			7/16/1994			6/13/1994			10/8/1992			9/1/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 19	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 19	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 19	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 19	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 19	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 19	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 15	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 15	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.309	U	<	0.309	U		NA		<	0.414	U		NA			NA	
4-Nitrotoluene	-	0 / 15	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	2.74	6 / 19	0.466	0.16		0.41	0.16		<	0.563	U	1.48	NRL		<	1.21	U	2.74	NRL	
MNX	-	0 / 7		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 19	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	2.64	6 / 19	<	0.558	U	<	0.558	U	0.903	NRL		1.6	NRL		1.6	NRL		2.64	NRL	
Tetryl	-	0 / 17	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-EXPLOSIVES

FIELD ID			CA211					CA211					CA211			CA211			CA211		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/9/2020					None			3/7/2013			3/1/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.079	0.19	0.2	<	U	0.089	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	1.03	1 / 24	<	U	0.035	0.094	0.1	<	U	0.039	0.11	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.042	0.094	0.1	<	U	0.048	0.11	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.026	0.075	0.09	<	U	0.029	0.085	0.11				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.038	0.075	0.09	<	U	0.043	0.085	0.11	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.048	0.094	0.1	<	UJ	0.054	0.11	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	U	0.081	0.19	0.2	<	UJ	0.091	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	U	0.18	0.38	0.38	<	UJ	0.21	0.43	0.43				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.054	0.11	0.14	<	UJ	0.061	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 20	<	U	0.094	0.38	0.39	<	UJ	0.11	0.43	0.44				<	0.8	U	<	0.8	U
HMX	2.78	22 / 24	<	U	0.083	0.19	0.2	<	U	0.093	0.21	0.22				0.23	0.8	J	0.25	0.8	J
MNX	-	0 / 12	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 24	<	U	0.086	0.19	0.2	<	U	0.097	0.21	0.22				<	0.8	U	<	0.8	U
RDX	5.12	12 / 24	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 22	<	U	0.03	0.094	0.1	<	U	0.034	0.11	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-EXPLOSIVES

FIELD ID			CA211			CA211			CA211			CA211			CA211			CA211			CA211		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/11/2010			3/5/2009			3/7/2008			3/9/2007			3/10/2006			3/10/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
1,3-Dinitrobenzene	1.03	1 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
HMX	2.78	22 / 24	0.29	0.8	J	0.48	0.4		0.78	0.48		0.78	0.47		0.97	0.5		0.9	0.48		0.88	0.5	
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U
RDX	5.12	12 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	0.32	0.5	J
Tetryl	-	0 / 22	<	0.8	U	<	0.24	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-EXPLOSIVES

FIELD ID			CA211			CA211			CA211			CA211			CA211			CA211			CA211		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/12/2004			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.39	U	<	0.24	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	1.03	1 / 24	<	0.39	U	<	0.16	U	<	0.18	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.39	U	<	0.2	U	<	0.23	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 24	<	0.76	U	<	0.16	U	<	0.18	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.76	U	<	0.62	U	<	0.71	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.76	U	<	0.25	U	<	0.29	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.76	U	<	0.49	U	<	0.56	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.76	U	<	0.31	U	<	0.36	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.76	U	<	0.42	U	<	0.48	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 20	<	1.2	U	<	1	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	2.78	22 / 24	1.3	0.96		1.3	0.68		1.3	0.78		1.3	1		1	0.8		1.68	0.8		1.16	0.500	J*
MNX	-	0 / 12	<	0.39	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.39	U	<	0.28	U	<	0.32	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	5.12	12 / 24	0.54	0.39		0.74	0.4		0.99	0.46		0.52	0.8	J	<	0.8	U	1.27	0.8	J	1.66	1.00	J*
Tetryl	-	0 / 22	<	0.76	U	<	0.66	U	<	0.76	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-EXPLOSIVES

FIELD ID			CA211			CA211			CA211			CA211			CA211			CA211		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/2/1997			12/10/1996			7/16/1994			6/13/1994			10/8/1992			9/4/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 24	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	1.03	1 / 24	<	0.989	U	<	0.989	U	<	0.549	U	1.03	NRL		<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 24	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 24	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	2.78	22 / 24	1.74	0.16		1.8	0.16		2.38	NRL		2.47	NRL		2.78	NRL		2.45	NRL	
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	5.12	12 / 24	1.66	0.558		<	0.558	U	2.88	NRL		3.9	NRL		5.12	NRL		4.21	NRL	
Tetryl	-	0 / 22	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212 EXPLOSIVES

FIELD ID			CA212					CA212					CA212			CA212			CA212		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/9/2020					None			3/7/2013			3/1/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.082	0.19	0.2	<	U	0.091	0.22	0.23				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	0.63	1 / 24	<	U	0.036	0.097	0.11	<	U	0.04	0.11	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.044	0.097	0.11	<	U	0.049	0.11	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.027	0.078	0.1	<	U	0.03	0.087	0.11				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.039	0.078	0.1	<	U	0.043	0.087	0.11	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.049	0.097	0.11	<	UJ	0.055	0.11	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	U	0.083	0.19	0.2	<	UJ	0.093	0.22	0.23				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	U	0.19	0.39	0.39	<	UJ	0.21	0.43	0.43				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.056	0.12	0.15	<	UJ	0.062	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 20	<	U	0.097	0.39	0.4	<	UJ	0.11	0.43	0.44				<	0.8	U	<	0.8	U
HMX	0.952	10 / 24	<	U	0.085	0.19	0.2	<	U	0.095	0.22	0.23				0.14	0.8	J	0.11	0.8	J
MNX	-	0 / 12	<	U	0.15	0.39	1.9	<	U	0.17	0.43	2.2				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 24	<	U	0.088	0.19	0.2	<	U	0.099	0.22	0.23				<	0.8	U	<	0.8	U
RDX	1.13	2 / 24	<	U	0.05	0.19	0.2	<	U	0.056	0.22	0.23				<	0.8	U	<	0.8	U
Tetryl	-	0 / 22	<	U	0.031	0.097	0.11	<	U	0.034	0.11	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212 EXPLOSIVES

FIELD ID			CA212			CA212			CA212			CA212			CA212			CA212			CA212		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/11/2010			3/5/2009			3/7/2008			3/9/2007			3/10/2006			3/10/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
1,3-Dinitrobenzene	0.63	1 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
HMX	0.952	10 / 24	<	0.8	U	0.16	0.4	J	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
RDX	1.13	2 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U
Tetryl	-	0 / 22	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.52	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212 EXPLOSIVES

FIELD ID			CA212			CA212			CA212			CA212			CA212			CA212			CA212		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/12/2004			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.29	U	<	0.29	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	0.63	1 / 24	<	0.29	U	<	0.19	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.29	U	<	0.24	U	<	0.35	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 24	<	0.56	U	<	0.19	U	<	0.28	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.56	U	<	0.74	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.56	U	<	0.3	U	<	0.44	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.56	U	<	0.59	U	<	0.86	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.56	U	<	0.37	U	<	0.54	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.56	U	<	0.5	U	<	0.74	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 20	<	0.9	U	<	1.2	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.952	10 / 24	0.45	0.7	J	0.39	0.82	J	<	1.2	U	<	1	U	0.4	0.8	J	<	0.8	U	<	0.500	U
MNX	-	0 / 12	<	0.29	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.29	U	<	0.34	U	<	0.49	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	1.13	2 / 24	<	0.29	U	0.31	0.48	J	<	0.70	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 22	<	0.56	U	<	0.79	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212 EXPLOSIVES

FIELD ID			CA212			CA212			CA212			CA212			CA212			CA212		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/2/1997			12/10/1996			7/17/1994			6/12/1994			10/8/1992			9/4/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 24	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	0.63	1 / 24	<	0.989	U	<	0.989	U	0.63	NRL		<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 24	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 24	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.952	10 / 24	0.66	0.16		0.45	0.16		0.952	NRL		0.668	NRL		<	1.21	U	<	1.21	U
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	1.13	2 / 24	<	0.558	U	<	0.558	U	1.13	NRL		<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 22	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-EXPLOSIVES

FIELD ID			CA213					CA213					CA213			CA213			CA213		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/10/2020					None			3/7/2013			3/1/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 24	<	U	0.082	0.19	0.2	<	U	0.087	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	U	0.036	0.097	0.11	<	U	0.038	0.1	0.11				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	U	0.044	0.097	0.11	<	U	0.046	0.1	0.11				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 24	<	U	0.027	0.078	0.1	<	U	0.028	0.083	0.1				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 24	<	U	0.039	0.078	0.1	<	U	0.041	0.083	0.1	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.049	0.097	0.11	<	U	0.052	0.1	0.11	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	U	0.083	0.19	0.2	<	U	0.088	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	U	0.19	0.39	0.39	<	U	0.2	0.41	0.41				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.056	0.12	0.15	<	U	0.06	0.12	0.15				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 20	<	U	0.097	0.39	0.4	<	U	0.1	0.41	0.42				<	0.8	U	<	0.8	U
HMX	-	0 / 24	<	U	0.085	0.19	0.2	<	U	0.09	0.21	0.22				<	0.8	U	<	0.8	U
MNX	-	0 / 12	<	U	0.15	0.39	1.9	<	U	0.16	0.41	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 24	<	U	0.089	0.19	0.2	<	U	0.094	0.21	0.22				<	0.8	U	<	0.8	U
RDX	-	0 / 24	<	U	0.05	0.19	0.2	<	U	0.053	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 22	<	U	0.031	0.097	0.11	<	U	0.033	0.1	0.11				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-EXPLOSIVES

FIELD ID			CA213			CA213			CA213			CA213			CA213			CA213			CA213		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/11/2010			3/5/2009			3/7/2008			3/9/2007			3/10/2006			3/10/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.98	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.98	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
HMX	-	0 / 24	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
RDX	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U
Tetryl	-	0 / 22	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-EXPLOSIVES

FIELD ID			CA213			CA213			CA213			CA213			CA213			CA213			CA213		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/12/2004			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.51	U	<	0.24	U	<	0.36	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 24	<	0.51	U	<	0.16	U	<	0.24	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.51	U	<	0.2	U	<	0.30	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 24	<	0.99	U	<	0.16	U	<	0.24	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 24	<	0.99	U	<	0.62	U	<	0.93	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.99	U	<	0.25	U	<	0.38	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.99	U	<	0.49	U	<	0.74	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.99	U	<	0.31	U	<	0.46	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.99	U	<	0.42	U	<	0.63	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 20	<	1.6	U	<	1	U	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 24	<	1.2	U	<	0.68	U	<	1.0	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 12	<	0.51	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.51	U	<	0.28	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 24	<	0.51	U	<	0.4	U	<	0.60	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 22	<	0.99	U	<	0.66	U	<	0.99	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-EXPLOSIVES

FIELD ID			CA213			CA213			CA213			CA213			CA213			CA213		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/2/1997			12/10/1996			7/17/1994			6/12/1994			10/7/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 24	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 24	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 24	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 24	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	-	0 / 24	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 24	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 22	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA220-EXPLOSIVES

FIELD ID			CA220			CA220			CA220			CA220			CA220			CA220			CA220		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			None			None			None			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 8																			<	0.46	U
1,3-Dinitrobenzene	-	0 / 8																			<	0.31	U
2,4,6-Trinitrotoluene	-	0 / 8																			<	0.38	U
2,4-Dinitrotoluene	-	0 / 8																			<	0.31	U
2,6-Dinitrotoluene	-	0 / 8	**Abandoned**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			**No 2003 Sample**			<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 8	**2008**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.48	U
2-Nitrotoluene	-	0 / 4																			<	0.94	U
3-Nitrotoluene	-	0 / 4																			<	0.59	U
4-Amino-2,6-dinitrotoluene	-	0 / 4																			<	0.81	U
4-Nitrotoluene	-	0 / 4																			<	1.9	U
HMX	-	0 / 8																			<	1.3	U
MNX	-	0 / 0																				NA	
Nitrobenzene	-	0 / 8																			<	0.54	U
RDX	-	0 / 8																			<	0.77	U
Tetryl	-	0 / 6																			<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA220-EXPLOSIVES

FIELD ID			CA220			CA220			CA220			CA220			CA220			CA220			CA220		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/20/2001			3/10/2000			3/23/1999			6/13/1998			7/14/1994			6/11/1994			10/10/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 8	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 8	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 8	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 8	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 8	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 4	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 4	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 4	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 4	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 8	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 0		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 8	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 8	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 6	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA220-EXPLOSIVES

FIELD ID			CA220		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/2/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 8	<	0.449	U
1,3-Dinitrobenzene	-	0 / 8	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 8	<	0.635	U
2,4-Dinitrotoluene	-	0 / 8	<	0.064	U
2,6-Dinitrotoluene	-	0 / 8	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 8	<	0.158	U
2-Nitrotoluene	-	0 / 4		NA	
3-Nitrotoluene	-	0 / 4		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 4		NA	
4-Nitrotoluene	-	0 / 4		NA	
HMX	-	0 / 8	<	1.21	U
MNX	-	0 / 0		NA	
Nitrobenzene	-	0 / 8	<	0.645	U
RDX	-	0 / 8	<	1.17	U
Tetryl	-	0 / 6		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA221-EXPLOSIVES

FIELD ID			CA221			CA221			CA221			CA221			CA221			CA221			CA221		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/13/2006			3/14/2005			3/11/2004			3/14/2003			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.4	U	<	0.26	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.4	U	<	0.18	U	<	0.32	U
2,4,6-Trinitrotoluene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.4	U	<	0.22	U	<	0.40	U
2,4-Dinitrotoluene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.78	U	<	0.18	U	<	0.32	U
2,6-Dinitrotoluene	-	0 / 13	**Abandoned**			**Not Sampled**			<	0.48	U	<	0.48	U	<	0.78	U	<	0.68	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 13	**2008**			**in 2007**			<	0.48	U	<	0.48	U	<	0.78	U	<	0.28	U	<	0.50	U
2-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.78	U	<	0.54	U	<	0.98	U
3-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.78	U	<	0.34	U	<	0.62	U
4-Amino-2,6-dinitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.78	U	<	0.46	U	<	0.84	U
4-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	1.3	U	<	1.1	U	<	2.0	U
HMX	-	0 / 13							<	0.48	U	<	0.48	U	<	0.98	U	<	0.75	U	<	1.4	U
MNX	-	0 / 3								0.48	U	<	0.48	U	<	0.4	U		NA			NA	
Nitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.4	U	<	0.31	U	<	0.56	U
RDX	0.543	2 / 13							<	0.48	U	<	0.48	U	<	0.4	U	0.19	0.44	J	<	0.80	U
Tetryl	-	0 / 11							<	0.48	U	<	0.48	U	<	0.78	U	<	0.73	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA221-EXPLOSIVES

FIELD ID			CA221			CA221			CA221			CA221			CA221			CA221			CA221		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/20/2001			3/10/2000			3/23/1999			6/13/1998			7/14/1994			6/11/1994			10/10/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 13	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 13	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 3		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	0.543	2 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	0.543	NRL		<	0.412	U	<	1.17	U
Tetryl	-	0 / 11	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA221-EXPLOSIVES

FIELD ID			CA221		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/2/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 13	<	0.449	U
1,3-Dinitrobenzene	-	0 / 13	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.635	U
2,4-Dinitrotoluene	-	0 / 13	<	0.064	U
2,6-Dinitrotoluene	-	0 / 13	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 13	<	0.158	U
2-Nitrotoluene	-	0 / 9		NA	
3-Nitrotoluene	-	0 / 9		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9		NA	
4-Nitrotoluene	-	0 / 9		NA	
HMX	-	0 / 13	<	1.21	U
MNX	-	0 / 3		NA	
Nitrobenzene	-	0 / 13	<	0.645	U
RDX	0.543	2 / 13	<	1.17	U
Tetryl	-	0 / 11		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA222-EXPLOSIVES

FIELD ID			CA222			CA222			CA222			CA222			CA222			CA222			CA222		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/13/2006			3/14/2005			3/11/2004			3/14/2003			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.28	U	<	0.24	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.28	U	<	0.16	U	<	0.32	U
2,4,6-Trinitrotoluene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.28	U	<	0.2	U	<	0.40	U
2,4-Dinitrotoluene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.54	U	<	0.16	U	<	0.32	U
2,6-Dinitrotoluene	-	0 / 13	**Abandoned**			**Not Sampled**			<	0.48	U	<	0.48	U	<	0.54	U	<	0.62	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 13	**2008**			**in 2007**			<	0.48	U	<	0.48	U	<	0.54	U	<	0.25	U	<	0.50	U
2-Nitrotoluene	0.26 J	1 / 9							<	0.48	U	<	0.48	U	<	0.54	U	<	0.49	U	<	0.98	U
3-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.54	U	<	0.31	U	<	0.62	U
4-Amino-2,6-dinitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.54	U	<	0.42	U	<	0.84	U
4-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.87	U	<	1	U	<	2.0	U
HMX	-	0 / 13							<	0.48	U	<	0.48	U	<	0.68	U	<	0.68	U	<	1.4	U
MNX	-	0 / 3							<	0.48	U	<	0.48	U	<	0.28	U		NA			NA	
Nitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.28	U	<	0.28	U	<	0.56	U
RDX	0.17 J	1 / 13							<	0.48	U	<	0.48	U	<	0.28	U	0.17	0.4	J	<	0.80	U
Tetryl	-	0 / 11							<	0.48	U	<	0.48	U	<	0.54	U	<	0.66	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA222-EXPLOSIVES

FIELD ID			CA222			CA222			CA222			CA222			CA222			CA222			CA222		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/20/2001			3/10/2000			3/23/1999			6/13/1998			7/14/1994			6/11/1994			10/9/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 13	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	0.26 J	1 / 9	0.26	0.8	J	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 13	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 3		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	0.17 J	1 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 11	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA222-EXPLOSIVES

FIELD ID			CA222		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/2/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 13	<	0.449	U
1,3-Dinitrobenzene	-	0 / 13	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.635	U
2,4-Dinitrotoluene	-	0 / 13	<	0.064	U
2,6-Dinitrotoluene	-	0 / 13	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 13	<	0.158	U
2-Nitrotoluene	0.26 J	1 / 9		NA	
3-Nitrotoluene	-	0 / 9		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9		NA	
4-Nitrotoluene	-	0 / 9		NA	
HMX	-	0 / 13	<	1.21	U
MNX	-	0 / 3		NA	
Nitrobenzene	-	0 / 13	<	0.645	U
RDX	0.17 J	1 / 13	<	1.17	U
Tetryl	-	0 / 11		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA230-EXPLOSIVES

FIELD ID			CA230			CA230			CA230			CA230			CA230			CA230			CA230		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			3/13/2003			3/15/2002			3/19/2001			3/9/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 10										<	0.24	U	<	0.28	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 10										<	0.16	U	<	0.19	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 10										<	0.2	U	<	0.23	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 10										<	0.16	U	<	0.19	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 10	**Abandoned**			**No 2005 Sample**			**No 2004 Sample**			<	0.62	U	<	0.72	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 10	**2005**			**Well Dry**			**Well Dry**			<	0.25	U	<	0.29	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 6										<	0.49	U	<	0.57	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 6										<	0.31	U	<	0.36	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 6										<	0.42	U	<	0.49	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 6										<	1	U	<	1.2	U	<	0.8	U	<	1.1	U
HMX	-	0 / 10										<	0.68	U	<	0.79	U	<	1	U	<	0.8	U
MNX	-	0 / 0											NA			NA			NA			NA	
Nitrobenzene	-	0 / 10										<	0.28	U	<	0.33	U	<	0.8	U	<	0.8	U
RDX	-	0 / 10										<	0.4	U	<	0.47	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 8										<	0.66	U	<	0.77	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA230-EXPLOSIVES

FIELD ID			CA230			CA230			CA230			CA230			CA230			CA230		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	3/19/1999			6/12/1998			7/14/1994			6/21/1994			10/10/1992			9/3/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 10	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 6	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 6	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 6	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 6	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
HMX	-	0 / 10	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 0		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 10	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 10	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 8	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA231-EXPLOSIVES

FIELD ID			CA231			CA231			CA231			CA231			CA231			CA231			CA231		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/10/2005			3/12/2004			3/13/2003			3/15/2002			3/19/2001			3/9/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12				<	0.52	U	<	0.4	U	<	0.31	U	<	0.66	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 12				<	0.52	U	<	0.4	U	<	0.21	U	<	0.44	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 12				<	0.52	U	<	0.4	U	<	0.26	U	<	0.55	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 12				<	0.52	U	<	0.78	U	<	0.21	U	<	0.44	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 12	**Abandoned**			<	0.52	U	<	0.78	U	<	0.8	U	<	1.7	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2005**			<	0.52	U	<	0.78	U	<	0.32	U	<	0.69	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 8				<	0.52	U	<	0.78	U	<	0.63	U	<	1.3	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 8				<	0.52	U	<	0.78	U	<	0.4	U	<	0.85	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 8				<	0.52	U	<	0.78	U	<	0.54	U	<	1.2	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 8				<	0.52	U	<	1.3	U	<	1.3	U	<	2.8	U	<	0.8	U	<	1.1	U
HMX	-	0 / 12				<	0.52	U	<	0.98	U	<	0.87	U	<	1.9	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.52	U	<	0.4	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 12				<	0.52	U	<	0.4	U	<	0.36	U	<	0.77	U	<	0.8	U	<	0.8	U
RDX	-	0 / 12				<	0.52	U	<	0.4	U	<	0.51	U	<	1.1	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 10				<	0.52	U	<	0.78	U	<	0.85	U	<	1.8	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA231-EXPLOSIVES

FIELD ID			CA231			CA231			CA231			CA231			CA231			CA231		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	3/19/1999			6/12/1998			7/14/1994			6/21/1994			10/10/1992			9/3/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 12	<	0.8	U	<	1.000	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
HMX	-	0 / 12	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 2		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 12	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 10	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA232-EXPLOSIVES

FIELD ID			CA232			CA232			CA232			CA232			CA232			CA232			CA232		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/10/2005			3/12/2004			3/13/2003			3/15/2002			3/19/2001			3/9/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12				<	0.48	U	<	0.39	U	<	0.32	U	<	0.44	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	0.575	2 / 12				<	0.48	U	<	0.39	U	<	0.21	U	<	0.29	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 12				<	0.48	U	<	0.39	U	<	0.26	U	<	0.37	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 12				<	0.48	U	<	0.76	U	<	0.21	U	<	0.29	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 12	**Abandoned**			<	0.48	U	<	0.76	U	<	0.82	U	<	1.1	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2005**			<	0.48	U	<	0.76	U	<	0.33	U	<	0.46	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.76	U	<	0.65	U	<	0.90	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 8				<	0.48	U	<	0.76	U	<	0.41	U	<	0.57	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 8				<	0.48	U	<	0.76	U	<	0.55	U	<	0.77	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 8				<	0.48	U	<	1.2	U	<	1.3	U	<	1.8	U	<	0.8	U	<	1.1	U
HMX	-	0 / 12				<	0.48	U	<	0.96	U	<	0.9	U	<	1.2	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.48	U	<	0.39	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 12				<	0.48	U	<	0.39	U	<	0.37	U	<	0.51	U	<	0.8	U	<	0.8	U
RDX	-	0 / 12				<	0.48	U	<	0.39	U	<	0.53	U	<	0.73	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 10				<	0.48	U	<	0.76	U	<	0.87	U	<	1.2	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA232-EXPLOSIVES

FIELD ID			CA232			CA232			CA232			CA232			CA232			CA232		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	3/19/1999			6/12/1998			7/14/1994			6/21/1994			10/10/1992			9/3/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 12	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	0.575	2 / 12	<	0.8	U	<	0.500	U	0.543	NRL		0.575	NRL		<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.63	U
2,4-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.00	U		NA			NA			NA			NA	
HMX	-	0 / 12	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 2		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 12	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 10	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-EXPLOSIVES

FIELD ID			CA240			CA240			CA240			CA240			CA240			CA240			CA240		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			2/29/2012			3/3/2011			3/12/2010			3/5/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14										<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 14										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 14										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 14										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			**Not Sampled**			**No 2013 Sample**			<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	**2020**			**in 2014 through 2020**			**Well Dry**			<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 10										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 10										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 10										<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 10										<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 14										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ
MNX	-	0 / 5										<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 14										<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	-	0 / 14										<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 12										<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-EXPLOSIVES

FIELD ID			CA240			CA240			CA240			CA240			CA240			CA240			CA240		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			None			None			None			None			None			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.47	U																<	0.47	U
1,3-Dinitrobenzene	-	0 / 14	<	0.47	U																<	0.31	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.47	U																<	0.39	U
2,4-Dinitrotoluene	-	0 / 14	<	0.47	U																<	0.31	U
2,6-Dinitrotoluene	-	0 / 14	<	0.47	U	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			**No 2003 Sample**			<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.47	U	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.49	U
2-Nitrotoluene	-	0 / 10	<	0.47	U																<	0.96	U
3-Nitrotoluene	-	0 / 10	<	0.47	U																<	0.61	U
4-Amino-2,6-dinitrotoluene	-	0 / 10	<	0.47	U																<	0.83	U
4-Nitrotoluene	-	0 / 10	<	0.47	U																<	2.0	U
HMX	-	0 / 14	<	0.47	U																<	1.3	U
MNX	-	0 / 5	<	0.47	U																	NA	
Nitrobenzene	-	0 / 14	<	0.47	U																<	0.55	U
RDX	-	0 / 14	<	0.47	U																<	0.79	U
Tetryl	-	0 / 12	<	0.47	U																<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-EXPLOSIVES

FIELD ID			CA240			CA240			CA240			CA240			CA240			CA240			CA240		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/28/2001			3/13/2000			3/24/1999			6/13/1998			7/14/1994			6/10/1994			10/9/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 14	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 14	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 10	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 10	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 10	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 10	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 14	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 5		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 12	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-EXPLOSIVES

FIELD ID			CA240		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/4/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 14	<	0.449	U
1,3-Dinitrobenzene	-	0 / 14	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.635	U
2,4-Dinitrotoluene	-	0 / 14	<	0.064	U
2,6-Dinitrotoluene	-	0 / 14	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.158	U
2-Nitrotoluene	-	0 / 10		NA	
3-Nitrotoluene	-	0 / 10		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 10		NA	
4-Nitrotoluene	-	0 / 10		NA	
HMX	-	0 / 14	<	1.21	U
MNX	-	0 / 5		NA	
Nitrobenzene	-	0 / 14	<	0.645	U
RDX	-	0 / 14	<	1.17	U
Tetryl	-	0 / 12		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-EXPLOSIVES

FIELD ID			CA241			CA241			CA241			CA241			CA241			CA241			CA241		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			2/29/2012			3/3/2011			3/12/2010			3/5/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 20	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
3-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 16							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	0.098 J	1 / 20							<	0.8	U	0.098	0.8	J	<	0.8	U	<	0.41	U	<	0.48	UJ
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
RDX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 18							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-EXPLOSIVES

FIELD ID			CA241			CA241			CA241			CA241			CA241			CA241			CA241		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			3/8/2007			3/9/2006			3/11/2005			3/11/2004			3/13/2003			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.26	U	<	0.28	U
1,3-Dinitrobenzene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.18	U	<	0.18	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.22	U	<	0.23	U
2,4-Dinitrotoluene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.18	U	<	0.18	U
2,6-Dinitrotoluene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.68	U	<	0.71	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.28	U	<	0.29	U
2-Nitrotoluene	-	0 / 16	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.54	U	<	0.56	U
3-Nitrotoluene	-	0 / 16	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.34	U	<	0.36	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.46	U	<	0.48	U
4-Nitrotoluene	-	0 / 16	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.96	U	<	1.1	U	<	1.2	U
HMX	0.098 J	1 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.75	U	<	0.78	U
MNX	-	0 / 10	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U		NA			NA	
Nitrobenzene	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U	<	0.32	U
RDX	-	0 / 20	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.44	U	<	0.46	U
Tetryl	-	0 / 18	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.59	U	<	0.73	U	<	0.76	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-EXPLOSIVES

FIELD ID			CA241			CA241			CA241			CA241			CA241			CA241			CA241		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/28/2001			3/13/2000			3/24/1999			6/13/1998			7/14/1994			6/10/1994			10/9/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	0.098 J	1 / 20	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 18	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-EXPLOSIVES

FIELD ID			CA241		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/4/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 20	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.158	U
2-Nitrotoluene	-	0 / 16		NA	
3-Nitrotoluene	-	0 / 16		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16		NA	
4-Nitrotoluene	-	0 / 16		NA	
HMX	0.098 J	1 / 20	<	1.21	U
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 20	<	0.645	U
RDX	-	0 / 20	<	1.17	U
Tetryl	-	0 / 18		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-EXPLOSIVES

FIELD ID			CA242			CA242			CA242			CA242			CA242			CA242			CA242		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			2/29/2012			3/3/2011			3/12/2010			3/5/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 20	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 16							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	UJ
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 18							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-EXPLOSIVES

FIELD ID			CA242			CA242			CA242			CA242			CA242			CA242			CA242		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			3/9/2007			3/9/2006			3/11/2005			3/10/2004			3/13/2003			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.63	U	<	0.24	U	<	0.41	U
1,3-Dinitrobenzene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.63	U	<	0.16	U	<	0.27	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.63	U	<	0.2	U	<	0.34	U
2,4-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.16	U	<	0.27	U
2,6-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.62	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.25	U	<	0.43	U
2-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.49	U	<	0.83	U
3-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.31	U	<	0.53	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.42	U	<	0.71	U
4-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	2	U	<	1	U	<	1.7	U
HMX	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.5	U	<	0.68	U	<	1.2	U
MNX	-	0 / 10	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.63	U		NA			NA	
Nitrobenzene	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.63	U	<	0.28	U	<	0.48	U
RDX	-	0 / 20	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.63	U	<	0.4	U	<	0.68	U
Tetryl	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.66	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-EXPLOSIVES

FIELD ID			CA242			CA242			CA242			CA242			CA242			CA242			CA242		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/28/2001			3/13/2000			3/24/1999			6/13/1998			7/10/1994			6/14/1994			10/9/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 20	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 18	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-EXPLOSIVES

FIELD ID			CA242		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/4/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 20	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.158	U
2-Nitrotoluene	-	0 / 16		NA	
3-Nitrotoluene	-	0 / 16		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16		NA	
4-Nitrotoluene	-	0 / 16		NA	
HMX	-	0 / 20	<	1.21	U
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 20	<	0.645	U
RDX	-	0 / 20	<	1.17	U
Tetryl	-	0 / 18		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-EXPLOSIVES

FIELD ID			CA250			CA250			CA250			CA250			CA250			CA250			CA250		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/5/2013			2/28/2012			3/2/2011			3/10/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 22	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2017**			**in 2014, 2015, 2016,**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
2-Nitrotoluene	-	0 / 18				**2017**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.49	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U
HMX	0.89 J	9 / 22							0.11	0.8	J	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.49	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
RDX	2.62	11 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
Tetryl	-	0 / 20							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-EXPLOSIVES

FIELD ID			CA250			CA250			CA250			CA250			CA250			CA250			CA250		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/5/2008			3/8/2007			3/9/2006			3/9/2005			3/16/2004			3/12/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.40	U
1,3-Dinitrobenzene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.26	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.33	U
2,4-Dinitrotoluene	-	0 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	1.0	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	0.41	U
2-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	0.81	U
3-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	0.69	U
4-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.62	U	<	1.6	U
HMX	0.89 J	9 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	0.37	0.39	J	0.67	0.48		0.89	1.1	J
MNX	-	0 / 10	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.46	U
RDX	2.62	11 / 22	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	0.35	0.16		0.5	0.2		0.87	0.66	
Tetryl	-	0 / 20	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.38	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-EXPLOSIVES

FIELD ID			CA250			CA250			CA250			CA250			CA250			CA250			CA250		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/15/2001			3/15/2000			3/22/1999			6/15/1998			10/3/1997			12/15/1996			7/15/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	0.89 J	9 / 22	0.75	1	J	0.64	0.8	J	<	0.8	U	<	0.500	U	0.542	0.16		0.61	0.16		0.8	NRL	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	2.62	11 / 22	0.69	0.8	J	0.62	0.8	J	0.854	0.8		<	1.00	U	1.09	0.558		<	0.558	U	1.29	NRL	
Tetryl	-	0 / 20	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-EXPLOSIVES

FIELD ID			CA250			CA250			CA250		
METHOD	Maximum	Detection	UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	6/11/1994			10/8/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 22	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 21		NA		<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 18		NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA	
HMX	0.89 J	9 / 22	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 10		NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.645	U
RDX	2.62	11 / 22	0.681	NRL		2.62	NRL		2.2	NRL	
Tetryl	-	0 / 20	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-EXPLOSIVES

FIELD ID			CA251			CA251			CA251			CA251			CA251			CA251			CA251		
METHOD	Maximum	Detection	SW846 M8329			SW846 M8329			SW846 M8329			SW846 M8329			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/5/2013			2/28/2012			3/2/2011			3/10/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.31	1 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 22	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2017**			**in 2014, 2015, 2016,**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18				**2017**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	6.27	19 / 22							0.29	0.8	J	<	0.8	U	0.58	0.8	J	0.98	0.4		1	0.48	
MNX	0.44 J	1 / 10							<	0.8	U	0.44	0.8	J	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	28	19 / 22							<	0.8	U	0.12	0.8	J	0.91	0.8		0.29	0.2		<	0.48	U
Tetryl	-	0 / 20							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-EXPLOSIVES

FIELD ID			CA251			CA251			CA251			CA251			CA251			CA251			CA251		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.31	1 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.28	U	<	0.38	U
1,3-Dinitrobenzene	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.28	U	<	0.26	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.28	U	<	0.32	U
2,4-Dinitrotoluene	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	0.99	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	0.40	U
2-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	0.78	U
3-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	0.50	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	0.67	U
4-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	1.2	U	<	0.87	U	<	1.6	U
HMX	6.27	19 / 22	0.96	0.49		<	0.5	U	<	0.48	U	0.89	0.49		1.2	0.92		1.4	0.68		2.0	1.1	
MNX	0.44 J	1 / 10	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.38	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.28	U	<	0.45	U
RDX	28	19 / 22	1.2	0.49		<	0.5	U	0.64	0.48		1.1	0.49		2	0.38		3.3	0.28		3.9	0.64	
Tetryl	-	0 / 20	<	0.49	U	<	0.5	U	<	0.48	U	<	0.49	U	<	0.73	U	<	0.54	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-EXPLOSIVES

FIELD ID			CA251			CA251			CA251			CA251			CA251			CA251			CA251		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/15/2001			3/15/2000			3/22/1999			6/15/1998			10/3/1997			12/15/1996			7/15/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.31	1 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	0.31	0.125		<	0.425	U
1,3-Dinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	6.27	19 / 22	1.6	1		3.4	0.8		3.78	0.8		2.77	0.500		3.75	0.16		3.65	0.16		5.8	NRL	
MNX	0.44 J	1 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	28	19 / 22	3.9	0.8		5.6	0.8		7.97	0.8		7.86	1.00		11.3	0.558		13.6	0.558		28	NRL	
Tetryl	-	0 / 20	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-EXPLOSIVES

FIELD ID			CA251			CA251			CA251		
METHOD	Maximum	Detection	UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	6/10/1994			10/8/1992			9/4/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	0.31	1 / 22	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 22	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 18		NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA	
HMX	6.27	19 / 22	6.27	NRL		2.95	NRL		4.49	NRL	
MNX	0.44 J	1 / 10		NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.645	U
RDX	28	19 / 22	25	NRL		19.7	NRL		21	NRL	
Tetryl	-	0 / 20	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-EXPLOSIVES

FIELD ID			CA252			CA252			CA252			CA252			CA252			CA252			CA252		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/5/2013			2/28/2012			3/2/2011			3/10/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 22	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2017**			**in 2014, 2015, 2016,**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18				**2017**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 19							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	5.59	22 / 22							0.72	0.8	J	0.52	0.8	J	0.48	0.8	J	0.63	0.4		0.59	0.48	
MNX	0.32 J	1 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	19.4	18 / 22							0.83	0.8	J	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 20							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-EXPLOSIVES

FIELD ID			CA252			CA252			CA252			CA252			CA252			CA252			CA252		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.27	U	<	0.30	U
1,3-Dinitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.27	U	<	0.20	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.27	U	<	0.25	U
2,4-Dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.20	U
2,6-Dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.79	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.32	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.62	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 19	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.53	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	1.3	U	<	0.85	U	<	1.3	U
HMX	5.59	22 / 22	2.5	0.48		2.7	0.48		3.3	0.48		3.6	0.48		4.1	1		4.3	0.66		4.8	0.86	
MNX	0.32 J	1 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	0.32	0.41	J		NA			NA	
Nitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.27	U	<	0.35	U
RDX	19.4	18 / 22	0.62	0.48		2.2	0.48		2.9	0.48		4	0.48		5.3	0.41		4.8	0.27		6.1	0.51	
Tetryl	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.8	U	<	0.53	U	<	0.84	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-EXPLOSIVES

FIELD ID			CA252			CA252			CA252			CA252			CA252			CA252			CA252		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/15/2001			3/15/2000			3/22/1999			6/15/1998			10/3/1997			12/15/1996			7/16/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.954	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 19	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U	<	0.704	U
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	5.59	22 / 22	3.7	1		4.2	0.8		3.48	0.8		3.17	0.500		3.11	0.16		4.6	0.16		4.81	NRL	
MNX	0.32 J	1 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	19.4	18 / 22	7	0.8		5.3	0.8		5.23	0.8		4.42	1.00		5.54	0.558		7.2	0.558		6.44	NRL	
Tetryl	-	0 / 20	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-EXPLOSIVES

FIELD ID			CA252			CA252			CA252		
METHOD	Maximum	Detection	UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	6/22/1994			10/8/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 22	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 22	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 18		NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 19		NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA	
HMX	5.59	22 / 22	2.92	NRL		5.59	NRL		5.42	NRL	
MNX	0.32 J	1 / 10		NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.645	U
RDX	19.4	18 / 22	4.55	NRL		19.4	NRL		17.1	NRL	
Tetryl	-	0 / 20	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-EXPLOSIVES

FIELD ID			CA253			CA253			CA253			CA253			CA253			CA253			CA253		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			2/28/2012			3/2/2011			3/8/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	1.1	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 21	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	**2017**			**in 2014, 2015, 2016,**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.49	U
2-Nitrotoluene	-	0 / 17				**2017**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.49	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1.1	U	<	0.49	U
HMX	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.49	U
Nitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.49	U
RDX	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.49	U
Tetryl	-	0 / 19							<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-EXPLOSIVES

FIELD ID			CA253			CA253			CA253			CA253			CA253			CA253			CA253		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/5/2008			3/6/2007			3/9/2006			3/10/2005			3/10/2004			3/12/2003			3/13/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.16	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.16	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.16	U	<	0.20	U
2,4-Dinitrotoluene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.25	U
2-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.49	U
3-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.42	U
4-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.93	U	<	0.5	U	<	1.0	U
HMX	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.73	U	<	0.39	U	<	0.68	U
MNX	-	0 / 10	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.3	U		NA			NA	
Nitrobenzene	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.16	U	<	0.28	U
RDX	-	0 / 21	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.16	U	<	0.40	U
Tetryl	-	0 / 19	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.31	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-EXPLOSIVES

FIELD ID			CA253			CA253			CA253			CA253			CA253			CA253			CA253		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/20/2001			6/14/2000			3/17/1999			6/12/1998			2/18/1997			7/16/1994			6/9/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U		NA			NA	
HMX	-	0 / 21	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 19	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-EXPLOSIVES

FIELD ID			CA253			CA253		
METHOD	Maximum	Detection	UW32			UW32		
COLLECT DATE	Detection	Frequency	10/9/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 21	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 21	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 21	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 21	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 17		NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA	
HMX	-	0 / 21	<	1.21	U	<	1.21	U
MNX	-	0 / 10		NA			NA	
Nitrobenzene	-	0 / 21	<	0.645	U	<	0.645	U
RDX	-	0 / 21	<	1.17	U	<	1.17	U
Tetryl	-	0 / 19		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA260-EXPLOSIVES

FIELD ID			CA260			CA260			CA260			CA260			CA260			CA260			CA260		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/5/2013			2/28/2012			None			3/6/2007			3/9/2006			3/9/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 32				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 32				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 32				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 32				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 32	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.49	U	<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010, 2011**			<	0.49	U	<	0.49	U	<	0.48	U
2-Nitrotoluene	-	0 / 24				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 24				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 24				<	1.4	U	<	1.4	U				<	0.49	U	<	0.49	U	<	0.48	U
4-Nitrotoluene	-	0 / 28				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
HMX	-	0 / 22				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
MNX	-	0 / 22				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
Nitrobenzene	-	0 / 32				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
RDX	-	0 / 30				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA260-EXPLOSIVES

FIELD ID			CA260			CA260			CA260			CA260			CA260			CA260			CA260		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/10/2004			3/12/2003			3/13/2002			3/15/2001			3/8/2000			3/18/1999			6/11/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 32	<	0.21	U	<	0.21	U	<	0.33	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 32	<	0.21	U	<	0.21	U	<	0.22	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.21	U	<	0.21	U	<	0.27	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 32	<	0.4	U	<	0.41	U	<	0.22	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 32	<	0.4	U	<	0.41	U	<	0.85	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.4	U	<	0.41	U	<	0.34	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 24	<	0.4	U	<	0.41	U	<	0.67	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 24	<	0.4	U	<	0.41	U	<	0.42	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.4	U	<	0.41	U	<	0.57	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 28	<	0.64	U	<	0.66	U	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 22	<	0.5	U	<	0.51	U	<	0.93	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 22	<	0.21	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 32	<	0.21	U	<	0.21	U	<	0.38	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 30	<	0.21	U	<	0.21	U	<	0.55	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 14	<	0.4	U	<	0.41	U	<	0.90	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA260-EXPLOSIVES

FIELD ID			CA260			CA260			CA260			CA260		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	7/13/1994			6/9/1994			10/9/1992			9/3/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 32	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 32	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 32	<	0.260	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 32	<	0.260	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 28	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 24		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 24		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 28		NA			NA			NA			NA	
HMX	-	0 / 22	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 22		NA			NA			NA			NA	
Nitrobenzene	-	0 / 32	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 30	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 14	<	1.180	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA261-EXPLOSIVES

FIELD ID			CA261			CA261			CA261			CA261			CA261			CA261			CA261		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/5/2013			2/28/2012			None			3/6/2007			3/9/2006			3/9/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 16	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.50	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010,**			<	0.50	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	**2011**			<	0.50	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U				<	0.50	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
HMX	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
MNX	-	0 / 6				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
RDX	-	0 / 16				<	0.8	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U				<	0.50	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA261-EXPLOSIVES

FIELD ID			CA261			CA261			CA261			CA261			CA261			CA261			CA261		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/10/2004			3/11/2003			3/13/2002			3/15/2001			3/8/2000			3/18/1999			6/11/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16	<	0.46	U	<	0.25	U	<	0.24	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 16	<	0.46	U	<	0.25	U	<	0.16	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.46	U	<	0.25	U	<	0.20	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 16	<	0.89	U	<	0.49	U	<	0.16	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 16	<	0.89	U	<	0.49	U	<	0.62	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.89	U	<	0.49	U	<	0.25	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	0.89	U	<	0.49	U	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	0.89	U	<	0.49	U	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	0.89	U	<	0.49	U	<	0.42	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	1.4	U	<	0.78	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 16	<	1.1	U	<	0.61	U	<	0.68	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 6	<	0.46	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.46	U	<	0.25	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 16	<	0.46	U	<	0.25	U	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 14	<	0.89	U	<	0.49	U	<	0.66	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA261-EXPLOSIVES

FIELD ID			CA261			CA261			CA261			CA261		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	7/13/1994			6/9/1994			10/9/1992			9/3/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 16	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 16	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 16	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 16	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
HMX	-	0 / 16	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 6		NA			NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 16	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 14	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA262-EXPLOSIVES

FIELD ID			CA262			CA262			CA262			CA262			CA262			CA262			CA262		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/6/2013			2/28/2012			None			3/6/2007			3/9/2006			3/9/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
1,3-Dinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
2,4,6-Trinitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
2,4-Dinitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
2,6-Dinitrotoluene	-	0 / 16	**Abandoned**			<	0.8	U	<	0.8	U	**Not Sampled**			<	0.49	U	<	0.49	U	<	0.52	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	**2013**			<	0.8	U	<	0.8	U	**in 2008, 2009, 2010,**			<	0.49	U	<	0.49	U	<	0.52	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	**2011**			<	0.49	U	<	0.49	U	<	0.52	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U				<	0.49	U	<	0.49	U	<	0.52	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
HMX	0.51 J	1 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	0.51	0.52	J
MNX	-	0 / 6				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
Nitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
RDX	-	0 / 16				<	0.8	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U				<	0.49	U	<	0.49	U	<	0.52	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA262-EXPLOSIVES

FIELD ID			CA262			CA262			CA262			CA262			CA262			CA262			CA262		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/10/2004			3/11/2003			3/13/2002			3/15/2001			3/8/2000			3/18/1999			6/11/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16	<	0.34	U	<	0.2	U	<	0.37	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 16	<	0.34	U	<	0.2	U	<	0.25	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.34	U	<	0.2	U	<	0.31	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 16	<	0.66	U	<	0.39	U	<	0.25	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 16	<	0.66	U	<	0.39	U	<	0.95	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.66	U	<	0.39	U	<	0.38	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	0.66	U	<	0.39	U	<	0.75	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	0.66	U	<	0.39	U	<	0.48	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	0.66	U	<	0.39	U	<	0.64	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	1.1	U	<	0.62	U	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.51 J	1 / 16	<	0.83	U	<	0.49	U	<	1.0	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 6	<	0.34	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.34	U	<	0.2	U	<	0.43	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 16	<	0.34	U	<	0.2	U	<	0.61	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 14	<	0.66	U	<	0.39	U	<	1.0	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA262-EXPLOSIVES

FIELD ID			CA262			CA262			CA262			CA262		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	7/22/1994			6/22/1994			10/9/1992			9/3/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 16	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 16	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 16	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 16	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 16	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 12		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 12		NA			NA			NA			NA	
HMX	0.51 J	1 / 16	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 6		NA			NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 16	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 14	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-EXPLOSIVES

FIELD ID			CA270					CA270					CA270					CA270				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None					None					3/16/2018					4/1/2017				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 27											<	UJ	0.032	0.1	0.15	<	U	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 27											<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 27											<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 27											<	UJ	0.051	0.1	0.13	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 27		**Abandoned**					**Not Sampled**				<	UJ	0.051	0.1	0.13	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 27		**2020**					**in 2019, 2020**				<	UJ	0.031	0.1	0.15	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 23											<	UJ	0.09	0.2	0.51	<	U	0.094	0.21	0.53
3-Nitrotoluene	-	0 / 23											<	UJ	0.058	0.2	0.51	<	U	0.061	0.21	0.53
4-Amino-2,6-dinitrotoluene	-	0 / 23											<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 23											<	UJ	0.09	0.2	0.51	<	U	0.094	0.21	0.53
HMX	-	0 / 27											<	UJ	0.029	0.1	0.15	<	U	0.038	0.11	0.16
MNX	-	0 / 15											<	UJ	0.037	0.1	0.51	<	U	0.03	0.11	0.53
Nitrobenzene	-	0 / 27											<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
RDX	2.79	2 / 27											<	UJ	0.037	0.1	0.15	<	U	0.038	0.11	0.16
Tetryl	-	0 / 25											<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-EXPLOSIVES

FIELD ID			CA270					CA270					CA270			CA270			CA270		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/10/2015					8/7/2014			2/29/2012			2/29/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 27	<	0.22	0.45	1.1	U	<	0.42	0.42	1.0	U	<	0.99	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.1	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.081	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.094	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.072	0.22	0.22	U	<	0.21	0.21	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.057	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.096	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.094	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.065	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.45	1.1	U	<	0.42	0.42	1.0	U	<	0.99	U	<	0.8	U	<	0.8	U
HMX	-	0 / 27	<	0.098	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.4	0.4	2.2	U	<	0.37	0.37	2.1	U	<	2	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.1	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
RDX	2.79	2 / 27	<	0.059	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 25	<	0.089	0.22	0.27	U	<	0.21	0.21	0.25	U	<	0.24	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-EXPLOSIVES

FIELD ID			CA270			CA270			CA270			CA270			CA270			CA270			CA270		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/6/2007			3/8/2006			3/8/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
HMX	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
RDX	2.79	2 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-EXPLOSIVES

FIELD ID			CA270			CA270			CA270			CA270			CA270			CA270			CA270		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/16/2004			3/12/2003			3/14/2002			3/14/2001			3/15/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.2	U	<	0.24	U	<	0.35	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.2	U	<	0.24	U	<	0.23	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.2	U	<	0.24	U	<	0.29	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.39	U	<	0.46	U	<	0.23	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.39	U	<	0.46	U	<	0.91	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.39	U	<	0.46	U	<	0.37	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.39	U	<	0.46	U	<	0.72	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.39	U	<	0.46	U	<	0.45	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.39	U	<	0.46	U	<	0.62	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.62	U	<	0.75	U	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 27	<	0.49	U	<	0.58	U	<	1.0	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.2	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.2	U	<	0.24	U	<	0.41	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	2.79	2 / 27	<	0.2	U	<	0.24	U	<	0.59	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.39	U	<	0.46	U	<	0.97	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-EXPLOSIVES

FIELD ID			CA270			CA270			CA270			CA270			CA270			CA270		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/1/1997			2/18/1997			7/14/1994			6/21/1994			10/6/1992			9/4/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	-	0 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	2.79	2 / 27	<	0.558	U	<	0.558	U	2.62	NRL		2.79	NRL		<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-EXPLOSIVES

FIELD ID			CA271					CA271					CA271					CA271				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None					None					3/16/2018					3/27/2017				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.045 J	1 / 27											<	U	0.031	0.1	0.15	0.045	J	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 27											<	U	0.051	0.1	0.15	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 27											<	U	0.051	0.1	0.15	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 27											<	U	0.051	0.1	0.13	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 27		**Abandoned**					**Not Sampled**				<	U	0.051	0.1	0.13	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 27		**2020**					**in 2019, 2020**				<	U	0.03	0.1	0.15	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 23											<	U	0.089	0.2	0.51	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 23											<	U	0.058	0.2	0.51	<	U	0.06	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23											<	U	0.051	0.1	0.15	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 23											<	U	0.089	0.2	0.51	<	U	0.092	0.21	0.52
HMX	1.32	15 / 27											0.14	J	0.028	0.1	0.15	0.1	J	0.038	0.1	0.16
MNX	0.097 J	1 / 15											<	U	0.036	0.1	0.51	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 27											<	U	0.051	0.1	0.15	<	U	0.052	0.1	0.16
RDX	8.12	26 / 27											0.099	J	0.036	0.1	0.15	<	U	0.038	0.1	0.16
Tetryl	-	0 / 25											<	U	0.051	0.1	0.15	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-EXPLOSIVES

FIELD ID			CA271					CA271					CA271			CA271			CA271		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/10/2015					8/7/2014			3/5/2013			2/29/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	0.045 J	1 / 27	<	0.22	0.45	1.1	U	<	0.41	0.41	1.0	U	<	0.99	UJ	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.099	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.081	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.094	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.072	0.22	0.22	U	<	0.21	0.21	0.21	U	<	0.2	UJ	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.057	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	UJ	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.096	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.093	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.065	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	UJ	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.45	1.1	U	<	0.41	0.41	1.0	U	<	0.99	UJ	<	0.8	U	<	0.8	U
HMX	1.32	15 / 27	<	0.098	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	0.2	0.8	J	0.32	0.8	J
MNX	0.097 J	1 / 15	<	0.4	0.4	2.2	U	<	0.37	0.37	2.1	U	<	2	UJ	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.1	0.22	0.45	U	<	0.21	0.21	0.41	U	<	0.4	UJ	<	0.8	U	<	0.8	U
RDX	8.12	26 / 27	0.26	0.058	0.13	0.22		0.13	0.13	0.054	0.21	J	0.072	0.2	J	0.33	0.8	J	0.95	0.8	J
Tetryl	-	0 / 25	<	0.089	0.22	0.27	U	<	0.21	0.21	0.25	U	<	0.24	UJ	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-EXPLOSIVES

FIELD ID			CA271			CA271			CA271			CA271			CA271			CA271			CA271		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/6/2007			3/8/2006			3/8/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.045 J	1 / 27	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
HMX	1.32	15 / 27	0.23	0.8	J	0.58	0.4		<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	0.69	0.48	
MNX	0.097 J	1 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U
RDX	8.12	26 / 27	0.94	0.8		0.71	0.2		0.64	0.48		0.96	0.47		1.8	0.5		1.4	0.48		2.5	0.48	
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.47	U	<	0.5	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-EXPLOSIVES

FIELD ID			CA271			CA271			CA271			CA271			CA271			CA271			CA271		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/9/2004			3/12/2003			3/13/2002			3/14/2001			3/15/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.045 J	1 / 27	<	0.18	U	<	0.22	U	<	0.24	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.18	U	<	0.22	U	<	0.16	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.18	U	<	0.22	U	<	0.20	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.34	U	<	0.42	U	<	0.16	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.34	U	<	0.42	U	<	0.62	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.34	U	<	0.42	U	<	0.25	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.34	U	<	0.42	U	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.34	U	<	0.42	U	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.34	U	<	0.42	U	<	0.42	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.55	U	<	0.68	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	1.32	15 / 27	0.71	0.43		0.62	0.53		0.78	0.68		<	1	U	0.54	0.8	J	0.879	0.8		0.636	0.500	
MNX	0.097 J	1 / 15	0.097	0.18	J		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.18	U	<	0.22	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	8.12	26 / 27	2.6	0.18		2.4	0.22		2.8	0.40		2.8	0.8		2.9	0.8		3.04	0.8		2.39	1.00	
Tetryl	-	0 / 25	<	0.34	U	<	0.42	U	<	0.66	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-EXPLOSIVES

FIELD ID			CA271			CA271			CA271			CA271			CA271			CA271		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/1/1997			2/18/1997			7/14/1994			6/21/1994			10/6/1992			9/4/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.045 J	1 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	1.32	15 / 27	1.06	0.16		1.32	0.16		<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	0.097 J	1 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	8.12	26 / 27	5.49	0.558		8.12	0.558		3.44	NRL		3.02	NRL		1.94	NRL		2.29	NRL	
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-EXPLOSIVES

FIELD ID			CA272	CA272	CA272					CA272				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/27/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	0.067 J	1 / 27			<	UJ	0.032	0.1	0.15	0.067	J	0.033	0.11	0.16
1,3-Dinitrobenzene	-	0 / 27			<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 27			<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
2,4-Dinitrotoluene	-	0 / 27			<	UJ	0.051	0.1	0.13	<	U	0.053	0.11	0.14
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	UJ	0.051	0.1	0.13	<	U	0.053	0.11	0.14
2-Amino-4,6-dinitrotoluene	0.06 J	1 / 27	**2020**	**in 2019, 2020**	<	UJ	0.031	0.1	0.15	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 23			<	UJ	0.09	0.2	0.51	<	U	0.093	0.21	0.53
3-Nitrotoluene	-	0 / 23			<	UJ	0.058	0.2	0.51	<	U	0.06	0.21	0.53
4-Amino-2,6-dinitrotoluene	-	0 / 24			<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
4-Nitrotoluene	-	0 / 23			<	UJ	0.09	0.2	0.51	<	U	0.093	0.21	0.53
HMX	3.5	24 / 27			0.79	J	0.029	0.1	0.15	1.1		0.038	0.11	0.16
MNX	0.37	2 / 15			<	UJ	0.037	0.1	0.51	<	U	0.03	0.11	0.53
Nitrobenzene	-	0 / 27			<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16
RDX	15	27 / 27			0.39	J	0.037	0.1	0.15	0.64		0.038	0.11	0.16
Tetryl	-	0 / 25			<	UJ	0.051	0.1	0.15	<	U	0.053	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-EXPLOSIVES

FIELD ID			CA272					CA272					CA272			CA272			CA272		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/10/2015					8/7/2014			3/5/2013			2/29/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	0.067 J	1 / 27	<	0.22	0.45	1.1	U	<	0.41	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.099	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.081	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.093	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.072	0.22	0.22	U	<	0.21	0.21	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	0.06 J	1 / 27	<	0.056	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	UJ	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.095	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.093	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.064	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.45	1.1	U	<	0.41	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U
HMX	3.5	24 / 27	0.52	0.097	0.22	0.45		0.64	0.21	0.21	0.42		0.41	0.4	J	0.88	0.8	J	1	0.8	
MNX	0.37	2 / 15	<	0.4	0.4	2.2	U	<	0.37	0.37	2.1	U	<	2	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.1	0.22	0.45	U	<	0.21	0.21	0.42	U	<	0.4	U	<	0.8	U	<	0.8	U
RDX	15	27 / 27	0.58	0.058	0.13	0.22		0.86	0.13	0.12	0.21		1.3	0.2		1.5	0.8	J	2	0.8	J
Tetryl	-	0 / 25	<	0.088	0.22	0.27	U	<	0.21	0.21	0.25	U	<	0.24	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-EXPLOSIVES

FIELD ID			CA272			CA272			CA272			CA272			CA272			CA272			CA272		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/6/2007			3/8/2006			3/8/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.067 J	1 / 27	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.06 J	1 / 27	<	0.8	U	0.06	0.2	J	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
HMX	3.5	24 / 27	1.1	0.8		1.7	0.4		2.2	0.48		2.4	0.48		2.3	0.52		2.6	0.48		3.4	0.48	
MNX	0.37	2 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	0.29	0.48	J
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
RDX	15	27 / 27	2.3	0.8		2.5	0.2		4.2	0.48		4.9	0.48		6.6	0.52		6.4	0.48		8.3	0.48	
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-EXPLOSIVES

FIELD ID			CA272			CA272			CA272			CA272			CA272			CA272			CA272		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/9/2004			3/12/2003			3/13/2002			3/14/2001			3/22/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.067 J	1 / 27	<	0.22	U	<	0.16	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.22	U	<	0.16	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.22	U	<	0.16	U	<	0.35	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.42	U	<	0.31	U	<	0.28	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.42	U	<	0.31	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	0.06 J	1 / 27	<	0.42	U	<	0.31	U	<	0.44	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.42	U	<	0.31	U	<	0.86	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.42	U	<	0.31	U	<	0.54	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.42	U	<	0.31	U	<	0.74	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.68	U	<	0.5	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	3.5	24 / 27	3.5	0.53		2.6	0.39		2.3	1.2		<	1	U	1.7	0.8		1.39	0.8		3.44	0.500	J*
MNX	0.37	2 / 15	0.37	0.22			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.22	U	<	0.16	U	<	0.49	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	15	27 / 27	11	0.22		9.4	1.6		11	0.70		5.9	0.8		4.3	0.8		3.28	0.8		4.38	1.00	
Tetryl	-	0 / 25	<	0.42	U	<	0.31	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-EXPLOSIVES

FIELD ID			CA272			CA272			CA272			CA272			CA272			CA272		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/1/1997			2/18/1997			7/15/1994			6/21/1994			10/6/1992			9/4/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.067 J	1 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	1.00	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	0.06 J	1 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.309	U	<	0.309	U	<	0.704	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	3.5	24 / 27	1.84	0.16		1.57	0.16		0.791	NRL		0.72	NRL		<	1.21	U	<	1.21	U
MNX	0.37	2 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	15	27 / 27	5.77	0.558		6.29	0.558		15	NRL		13	NRL		7.41	NRL		6.95	NRL	
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-EXPLOSIVES

FIELD ID			CA273	CA273	CA273					CA273				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/27/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	0.047 J	1 / 27			<	U	0.034	0.11	0.16	0.047	J	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 27			<	U	0.054	0.11	0.16	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 27			<	U	0.054	0.11	0.16	<	U	0.052	0.1	0.15
2,4-Dinitrotoluene	-	0 / 27			<	U	0.054	0.11	0.14	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	U	0.054	0.11	0.14	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	U	0.033	0.11	0.16	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 23			<	U	0.096	0.22	0.54	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	U	0.062	0.22	0.54	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	U	0.054	0.11	0.16	<	U	0.052	0.1	0.15
4-Nitrotoluene	-	0 / 23			<	U	0.096	0.22	0.54	<	U	0.091	0.21	0.52
HMX	0.073 J	1 / 27			<	U	0.03	0.11	0.16	0.073	J	0.037	0.1	0.15
MNX	-	0 / 15			<	U	0.039	0.11	0.54	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 27			<	U	0.054	0.11	0.16	<	U	0.052	0.1	0.15
RDX	-	0 / 27			<	U	0.039	0.11	0.16	<	U	0.037	0.1	0.15
Tetryl	-	0 / 25			<	U	0.054	0.11	0.16	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-EXPLOSIVES

FIELD ID			CA273					CA273					CA273			CA273			CA273		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/10/2015					8/7/2014			3/5/2013			2/29/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	0.047 J	1 / 27	<	0.22	0.44	1.1	U	<	0.41	0.41.	1.0	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.098	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.08	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.093	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.071	0.22	0.22	U	<	0.21	0.21	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.056	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.095	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.092	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.064	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.44	1.1	U	<	0.41	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U
HMX	0.073 J	1 / 27	<	0.097	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.4	0.4	2.2	U	<	0.37	0.37	2.1	U	<	2	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.1	0.22	0.44	U	<	0.21	0.21	0.41	U	<	0.4	U	<	0.8	U	<	0.8	U
RDX	-	0 / 27	<	0.058	0.13	0.22	U	<	0.12	0.12	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 25	<	0.088	0.22	0.27	U	<	0.21	0.21	0.25	U	<	0.24	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-EXPLOSIVES

FIELD ID			CA273			CA273			CA273			CA273			CA273			CA273			CA273		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/8/2007			3/8/2006			3/8/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.047 J	1 / 27	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
HMX	0.073 J	1 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
RDX	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-EXPLOSIVES

FIELD ID			CA273			CA273			CA273			CA273			CA273			CA273			CA273		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/9/2004			3/12/2003			3/13/2002			3/14/2001			3/15/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.047 J	1 / 27	<	0.16	U	<	0.22	U	<	0.34	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.16	U	<	0.22	U	<	0.22	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.16	U	<	0.22	U	<	0.28	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.31	U	<	0.42	U	<	0.22	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.31	U	<	0.42	U	<	0.87	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.31	U	<	0.42	U	<	0.35	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.31	U	<	0.42	U	<	0.69	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.31	U	<	0.42	U	<	0.43	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.31	U	<	0.42	U	<	0.59	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.5	U	<	0.68	U	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.073 J	1 / 27	<	0.39	U	<	0.53	U	<	0.95	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.16	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.16	U	<	0.22	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 27	<	0.16	U	<	0.22	U	<	0.56	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.31	U	<	0.42	U	<	0.92	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-EXPLOSIVES

FIELD ID			CA273			CA273			CA273			CA273			CA273			CA273		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	10/1/1997			2/18/1997			7/15/1994			6/9/1994			10/6/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.047 J	1 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.073 J	1 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 27	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-EXPLOSIVES

FIELD ID			CA280			CA280			CA280			CA280			CA280			CA280		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			3/9/2012			3/2/2011			3/8/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 17										<	0.8	U	<	0.8	U	<	1	U
1,3-Dinitrobenzene	-	0 / 17										<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 17										<	0.8	U	<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 17										<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 17	**Abandoned**			**Not Sampled**			**No 2013 Sample**			<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	**2020**			**in 2014 through 2020**			**Well Dry**			<	0.8	U	<	0.8	U	<	0.2	U
2-Nitrotoluene	-	0 / 13										<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 13										<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 13										<	1.4	U	<	0.8	U	<	0.2	U
4-Nitrotoluene	-	0 / 13										<	0.8	U	<	0.8	U	<	1	U
HMX	-	0 / 17										<	0.8	U	<	0.8	U	<	0.4	U
MNX	-	0 / 7										<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 16										<	0.8	U	<	0.8	U	<	0.4	U
RDX	-	0 / 17										<	0.8	U	<	0.8	U	<	0.2	U
Tetryl	-	0 / 15										<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-EXPLOSIVES

FIELD ID			CA280			CA280			CA280			CA280			CA280			CA280			CA280		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/3/2009			3/4/2008			3/6/2007			3/7/2006			None			None			3/11/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.21	U
1,3-Dinitrobenzene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.21	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.21	U
2,4-Dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.4	U
2,6-Dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	**No 2005 Sample**			**No 2004 Sample**			<	0.4	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U	**Well Dry**			**Well Dry**			<	0.4	U
2-Nitrotoluene	-	0 / 13	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.4	U
3-Nitrotoluene	-	0 / 13	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 13	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.4	U
4-Nitrotoluene	-	0 / 13	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.64	U
HMX	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.5	U
MNX	-	0 / 7	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U								NA	
Nitrobenzene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.21	U
RDX	-	0 / 17	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.21	U
Tetryl	-	0 / 15	<	0.48	U	<	0.48	U	<	0.50	U	<	0.48	U							<	0.4	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-EXPLOSIVES

FIELD ID			CA280			CA280			CA280			CA280			CA280			CA280			CA280		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/13/2002			3/13/2001			3/8/2000			3/18/1999			6/11/1998			7/12/1994			6/9/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 17	<	0.32	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 17	<	0.21	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.27	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 17	<	0.21	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 17	<	0.83	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	<	0.33	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 13	<	0.65	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	-	0 / 13	<	0.41	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 13	<	0.56	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Nitrotoluene	-	0 / 13	<	1.3	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
HMX	-	0 / 17	<	0.91	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U
MNX	-	0 / 7		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.37	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U
RDX	-	0 / 17	<	0.53	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 15	<	0.88	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-EXPLOSIVES

FIELD ID			CA280			CA280		
METHOD	Maximum	Detection	UW32			UW32		
COLLECT DATE	Detection	Frequency	10/6/1992			9/6/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 17	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 17	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 17	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 17	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 17	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 17	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 13		NA			NA	
3-Nitrotoluene	-	0 / 13		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 13		NA			NA	
4-Nitrotoluene	-	0 / 13		NA			NA	
HMX	-	0 / 17	<	1.21	U	<	1.21	U
MNX	-	0 / 7		NA			NA	
Nitrobenzene	-	0 / 16	<	0.645	U		NA	
RDX	-	0 / 17	<	1.17	U	<	1.17	U
Tetryl	-	0 / 15		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-EXPLOSIVES

FIELD ID			CA281			CA281			CA281			CA281			CA281			CA281		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/5/2013			2/27/2012			3/2/2011			3/8/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
1,3-Dinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 20	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 16							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U
4-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
HMX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
Tetryl	-	0 / 18							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-EXPLOSIVES

FIELD ID			CA281			CA281			CA281			CA281			CA281			CA281			CA281		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/3/2009			3/4/2008			3/6/2007			3/7/2006			3/8/2005			3/9/2004			3/11/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.21	U	<	0.16	U
1,3-Dinitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.21	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.21	U	<	0.16	U
2,4-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U
2,6-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U
2-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U
3-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U
4-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.67	U	<	0.5	U
HMX	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.52	U	<	0.39	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.21	U		NA	
Nitrobenzene	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.21	U	<	0.16	U
RDX	-	0 / 20	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.21	U	<	0.16	U
Tetryl	-	0 / 18	<	0.48	U	<	0.48	U	<	0.53	U	<	0.48	U	<	0.52	U	<	0.41	U	<	0.31	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-EXPLOSIVES

FIELD ID			CA281			CA281			CA281			CA281			CA281			CA281			CA281		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/13/2002			3/13/2001			3/8/2000			3/18/1999			6/11/1998			7/12/1994			6/9/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.24	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 20	<	0.16	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.20	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 20	<	0.16	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 20	<	0.62	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.25	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
3-Nitrotoluene	-	0 / 16	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.42	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA	
4-Nitrotoluene	-	0 / 16	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA	
HMX	-	0 / 20	<	0.68	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U
RDX	-	0 / 20	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 18	<	0.66	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-EXPLOSIVES

FIELD ID			CA281			CA281		
METHOD	Maximum	Detection	UW32			UW32		
COLLECT DATE	Detection	Frequency	10/6/1992			9/6/1992		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 20	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 16		NA			NA	
3-Nitrotoluene	-	0 / 16		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16		NA			NA	
4-Nitrotoluene	-	0 / 16		NA			NA	
HMX	-	0 / 20	<	1.21	U	<	1.21	U
MNX	-	0 / 10		NA			NA	
Nitrobenzene	-	0 / 20	<	0.645	U	<	0.645	U
RDX	-	0 / 20	<	1.17	U	<	1.17	U
Tetryl	-	0 / 18		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-EXPLOSIVES

FIELD ID			CA282			CA282			CA282			CA282			CA282			CA282			CA282		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/5/2013			2/27/2012			3/2/2011			3/8/2010			3/3/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 20	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 16							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 16							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 19							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	0.23 J	2 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 18							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-EXPLOSIVES

FIELD ID			CA282			CA282			CA282			CA282			CA282			CA282			CA282		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2008			3/7/2007			3/7/2006			3/8/2005			3/9/2004			3/11/2003			3/13/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.26	U	<	0.16	U	<	0.36	U
1,3-Dinitrobenzene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.26	U	<	0.16	U	<	0.24	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.26	U	<	0.16	U	<	0.30	U
2,4-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.24	U
2,6-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.93	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.38	U
2-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.74	U
3-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.46	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.63	U
4-Nitrotoluene	-	0 / 16	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.82	U	<	0.5	U	<	1.5	U
HMX	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.64	U	<	0.39	U	<	1.0	U
MNX	-	0 / 10	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.26	U		NA			NA	
Nitrobenzene	-	0 / 19	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.26	U	<	0.16	U	<	0.42	U
RDX	0.23 J	2 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	0.23	0.26	J	0.14	0.16	J	<	0.60	U
Tetryl	-	0 / 18	<	0.48	U	<	0.52	U	<	0.48	U	<	0.52	U	<	0.51	U	<	0.31	U	<	0.99	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-EXPLOSIVES

FIELD ID			CA282			CA282			CA282			CA282			CA282			CA282			CA282		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/13/2001			3/8/2000			3/18/1999			6/11/1998			7/12/1994			6/9/1994			10/6/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 20	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 19	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	0.23 J	2 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 18	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-EXPLOSIVES

FIELD ID			CA282		
METHOD	Maximum	Detection	UW32		
COLLECT DATE	Detection	Frequency	9/6/1992		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 20	<	0.449	U
1,3-Dinitrobenzene	-	0 / 20	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.635	U
2,4-Dinitrotoluene	-	0 / 20	<	0.064	U
2,6-Dinitrotoluene	-	0 / 20	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.158	U
2-Nitrotoluene	-	0 / 16		NA	
3-Nitrotoluene	-	0 / 16		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16		NA	
4-Nitrotoluene	-	0 / 16		NA	
HMX	-	0 / 20	<	1.21	U
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 19		NA	
RDX	0.23 J	2 / 20	<	1.17	U
Tetryl	-	0 / 18		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-EXPLOSIVES

FIELD ID			CA290R	CA290R	CA290R					CA290R				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/27/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 27			<	U	0.032	0.1	0.15	<	UJ	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 27			<	U	0.051	0.1	0.15	<	UJ	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 27			<	U	0.051	0.1	0.15	<	UJ	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 27			<	U	0.051	0.1	0.13	<	UJ	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	U	0.051	0.1	0.13	<	UJ	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	U	0.03	0.1	0.15	<	UJ	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 23			<	U	0.089	0.2	0.51	<	UJ	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	U	0.058	0.2	0.51	<	UJ	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	U	0.051	0.1	0.15	<	UJ	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 23			<	U	0.089	0.2	0.51	<	UJ	0.092	0.21	0.52
HMX	-	0 / 27			<	U	0.028	0.1	0.15	<	UJ	0.037	0.1	0.16
MNX	-	0 / 15			<	U	0.037	0.1	0.51	<	UJ	0.029	0.1	0.52
Nitrobenzene	-	0 / 27			<	U	0.051	0.1	0.15	<	UJ	0.052	0.1	0.16
RDX	0.22	1 / 27			<	U	0.037	0.1	0.15	<	UJ	0.037	0.1	0.16
Tetryl	-	0 / 25			<	U	0.051	0.1	0.15	<	UJ	0.052	0.1	0.16

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-EXPLOSIVES

FIELD ID			CA290R					CA290R					CA290R			CA290R			CA290R		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/6/2015					8/8/2014			3/4/2013			2/28/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 27	<	0.22	0.43	1.1	U	<	0.43	0.43	1.1	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.096	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.078	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.09	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.069	0.22	0.22	U	<	0.21	0.21	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.055	0.13	0.22	U	<	0.13	0.13	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.092	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.09	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.062	0.13	0.22	U	<	0.13	0.13	0.21	U	<	0.2	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.43	1.1	U	<	0.43	0.21	1.1	U	<	1	U	<	0.8	U	<	0.8	U
HMX	-	0 / 27	<	0.094	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	U	<	2	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.098	0.22	0.43	U	<	0.21	0.21	0.43	U	<	0.4	U	<	0.8	U	<	0.8	U
RDX	0.22	1 / 27	<	0.056	0.13	0.22	U	<	0.13	0.13	0.21	U	<	0.2	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 25	<	0.085	0.22	0.26	U	<	0.21	0.21	0.26	U	<	0.24	U	<	1.6	U	<	0.8	U

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-EXPLOSIVES

FIELD ID			CA290R			CA290R			CA290R			CA290R			CA290R			CA290R			CA290R		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/1/2011			3/8/2010			3/2/2009			3/3/2008			3/5/2007			3/7/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.8	U	<	1.1	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.22	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.22	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.22	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
HMX	-	0 / 27	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
MNX	-	0 / 15	<	0.8	U	<	2.2	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.43	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
RDX	0.22	1 / 27	<	0.8	U	<	0.22	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U
Tetryl	-	0 / 25	<	0.8	U	<	0.26	U	<	0.48	U	<	0.47	U	<	0.48	U	<	0.48	U	<	0.51	U

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-EXPLOSIVES

FIELD ID			CA290R			CA290			CA290			CA290			CA290			CA290			CA290		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/9/2004			3/11/2003			3/12/2002			3/14/2001			3/8/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.25	U	<	0.19	U	<	0.41	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.25	U	<	0.19	U	<	0.27	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.25	U	<	0.19	U	<	0.34	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.49	U	<	0.38	U	<	0.27	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.49	U	<	0.38	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.49	U	<	0.38	U	<	0.43	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.49	U	<	0.38	U	<	0.83	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.49	U	<	0.38	U	<	0.53	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.49	U	<	0.38	U	<	0.71	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.78	U	<	0.61	U	<	1.7	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 27	<	0.61	U	<	0.47	U	<	1.2	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.25	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.25	U	<	0.19	U	<	0.48	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	0.22	1 / 27	<	0.25	U	0.22	0.19		<	0.68	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.49	U	<	0.38	U	<	1.1	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-EXPLOSIVES

FIELD ID			CA290			CA290			CA290			CA290			CA290			CA290		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	8/30/1997			2/19/1997			7/12/1994			6/8/1994			10/5/1992			9/6/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U	<	NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U	<	NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U	<	NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U	<	NA			NA			NA			NA	
HMX	-	0 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	0.22	1 / 27	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-EXPLOSIVES

FIELD ID			CA291R	CA291R	CA291R					CA291R				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/25/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 27			<	UJ	0.033	0.11	0.16	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 27			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 27			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 27			<	UJ	0.053	0.11	0.14	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	UJ	0.053	0.11	0.14	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	UJ	0.032	0.11	0.16	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 23			<	UJ	0.093	0.21	0.53	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	UJ	0.06	0.21	0.53	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 23			<	UJ	0.093	0.21	0.53	<	U	0.091	0.21	0.52
HMX	0.76 J	4 / 27			<	UJ	0.029	0.11	0.16	<	U	0.037	0.1	0.16
MNX	-	0 / 15			<	UJ	0.038	0.11	0.53	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 27			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.16
RDX	2.1 J	8 / 27			<	UJ	0.038	0.11	0.16	<	U	0.037	0.1	0.16
Tetryl	-	0 / 25			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.16

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-EXPLOSIVES

FIELD ID			CA291R					CA291R					CA291R			CA291R			CA291R		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/6/2015					8/8/2014			3/4/2013			2/28/2012		
			Result	DL	LOD	LOQ	Qual	Result	Qual	DL	LOD	LOQ	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 27	<	0.22	0.44	1.1	U	<	U	0.43	0.43	1.1	<	0.99	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.097	0.22	0.44	U	<	U	0.21	0.21	0.43	<	0.4	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.079	0.22	0.44	U	<	U	0.21	0.21	0.43	<	0.4	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.091	0.22	0.44	U	<	U	0.21	0.21	0.43	<	0.4	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.07	0.22	0.22	U	<	U	0.21	0.21	0.21	<	0.2	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.055	0.13	0.22	U	<	U	0.13	0.13	0.21	<	0.2	UJ	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.093	0.22	0.44	U	<	U	0.21	0.21	0.43	<	0.4	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.091	0.22	0.44	U	<	U	0.21	0.21	0.43	<	0.4	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.063	0.13	0.22	U	<	U	0.13	0.13	0.21	<	0.2	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.44	1.1	U	<	U	0.43	0.21	1.1	<	0.99	U	<	0.8	U	<	0.8	U
HMX	0.76 J	4 / 27	<	0.095	0.22	0.44	U	<	U	0.21	0.13	0.43	<	0.4	U	0.52	0.8	J	0.76	0.8	J
MNX	-	0 / 15	<	0.39	0.39	2.2	U	<	U	0.38	0.38	2.1	<	2	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.099	0.22	0.44	U	<	U	0.21	0.21	0.43	<	0.4	U	<	0.8	U	<	0.8	U
RDX	2.1 J	8 / 27	<	0.057	0.13	0.22	U	0.33		0.13	0.13	0.21	0.29	0.2		1.1	0.8	J	2.1	0.8	J
Tetryl	-	0 / 25	<	0.086	0.22	0.26	U	<	U	0.21	0.21	0.26	<	0.24	U	<	1.6	U	<	0.8	U

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-EXPLOSIVES

FIELD ID			CA291R			CA291R			CA291R			CA291R			CA291R			CA291R			CA291R		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	4/12/2011			3/8/2010			3/2/2009			3/3/2008			3/5/2007			3/7/2006			3/8/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.8	U	<	1.1	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.42	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.42	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.42	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.21	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.21	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.42	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.42	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.21	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
HMX	0.76 J	4 / 27	0.51	0.8	J	0.21	0.42	J	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
MNX	-	0 / 15	<	0.8	U	<	2.1	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.42	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
RDX	2.1 J	8 / 27	2	0.8		0.6	0.21		<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U
Tetryl	-	0 / 25	<	0.8	U	<	0.25	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.51	U

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-EXPLOSIVES

FIELD ID			CA291R			CA291			CA291			CA291			CA291			CA291			CA291		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/9/2004			3/11/2003			3/12/2002			3/14/2001			3/8/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.28	U	<	0.26	U	<	0.37	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.28	U	<	0.26	U	<	0.25	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.28	U	<	0.26	U	<	0.31	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.55	U	<	0.51	U	<	0.25	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.55	U	<	0.51	U	<	0.96	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.55	U	<	0.51	U	<	0.39	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.55	U	<	0.51	U	<	0.76	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.55	U	<	0.51	U	<	0.48	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.55	U	<	0.51	U	<	0.65	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.88	U	<	0.82	U	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.76 J	4 / 27	<	0.69	U	<	0.64	U	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.28	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.28	U	<	0.26	U	<	0.43	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	2.1 J	8 / 27	<	0.28	U	0.52	0.26		<	0.62	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.55	U	<	0.51	U	<	1.0	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-EXPLOSIVES

FIELD ID			CA291			CA291			CA291			CA291			CA291			CA291		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	9/30/1997			2/19/1997			7/12/1994			6/8/1994			10/5/1992			9/6/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.76 J	4 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	2.1 J	8 / 27	<	0.558	U	<	0.558	U	0.737	NRL		<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-EXPLOSIVES

FIELD ID			CA292R	CA292R	CA292R					CA292R				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/25/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	1 / 27			t	UJ	0.032	0.1	0.15	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 27			<	UJ	0.051	0.1	0.15	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 27			<	UJ	0.051	0.1	0.15	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 27			<	UJ	0.051	0.1	0.13	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	UJ	0.051	0.1	0.13	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	UJ	0.031	0.1	0.15	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 23			<	UJ	0.09	0.21	0.51	<	U	0.091	0.21	0.51
3-Nitrotoluene	-	0 / 23			<	UJ	0.059	0.21	0.51	<	U	0.059	0.21	0.51
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	UJ	0.051	0.1	0.15	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 23			<	UJ	0.09	0.21	0.51	<	U	0.091	0.21	0.51
HMX	0.85	10 / 27			<	UJ	0.029	0.1	0.15	0.27	J	0.037	0.1	0.15
MNX	0.11 J	1 / 15			<	UJ	0.037	0.1	0.51	<	U	0.029	0.1	0.51
Nitrobenzene	-	0 / 27			<	UJ	0.051	0.1	0.15	<	U	0.051	0.1	0.15
RDX	5.85	18 / 27			<	UJ	0.037	0.1	0.15	0.23	J	0.037	0.1	0.15
Tetryl	-	0 / 25			<	UJ	0.051	0.1	0.15	<	U	0.051	0.1	0.15

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-EXPLOSIVES

FIELD ID			CA292R					CA292R					CA292R			CA292R			CA292R		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/6/2015					8/8/2014			3/4/2013			2/28/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	1 / 27	<	0.22	0.44	1.1	U	<	0.43	0.43	1.1	U	<	1	UJ	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.097	0.22	0.44	U	<	0.21	0.22	0.43	U	<	0.4	UJ	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.079	0.22	0.44	U	<	0.21	0.22	0.43	U	<	0.4	UJ	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.091	0.22	0.44	U	<	0.21	0.22	0.43	U	<	0.4	UJ	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.07	0.22	0.22	U	<	0.21	0.22	0.22	U	<	0.2	UJ	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.055	0.13	0.22	U	<	0.13	0.13	0.22	U	<	0.2	UJ	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.093	0.22	0.44	U	<	0.21	0.22	0.43	U	<	0.4	UJ	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.091	0.22	0.44	U	<	0.21	0.22	0.43	U	<	0.4	UJ	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.063	0.13	0.22	U	<	0.13	0.13	0.22	U	<	0.2	UJ	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.22	0.44	1.1	U	<	0.43	0.43	1.1	U	<	1	UJ	<	0.8	U	<	0.8	U
HMX	0.85	10 / 27	0.5	0.096	0.22	0.44		0.85	0.21	0.22	0.43		0.57	0.4	J	0.54	0.8	J	0.14	0.8	J
MNX	0.11 J	1 / 15	<	0.39	0.39	2.2	U	<	0.39	0.39	2.2	U	<	2	UJ	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.099	0.22	0.44	U	<	0.21	0.22	0.43	U	<	0.4	UJ	<	0.8	U	<	0.8	U
RDX	5.85	18 / 27	0.56	0.057	0.13	0.22		1.3	0.13	0.13	0.22		1.1	0.2	J	1	0.8	J	0.6	0.8	J
Tetryl	-	0 / 25	<	0.087	0.22	0.26	U	<	0.21	0.22	0.26	U	<	0.24	UJ	<	1.6	U	<	0.8	U

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-EXPLOSIVES

FIELD ID			CA292R			CA292R			CA292R			CA292R			CA292R			CA292R			CA292R		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	4/12/2011			3/8/2010			3/3/2009			3/3/2008			3/5/2007			3/7/2006			3/8/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	1 / 27	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
HMX	0.85	10 / 27	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	0.69	0.48		<	0.48	U	0.3	0.54	J
MNX	0.11 J	1 / 15	<	0.8	U	<	2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U
RDX	5.85	18 / 27	<	0.8	U	0.13	0.2	J	<	0.49	U	1.3	0.48		1.8	0.48		0.95	0.48		0.91	0.54	
Tetryl	-	0 / 25	<	0.8	U	<	0.25	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.54	U

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-EXPLOSIVES

FIELD ID			CA292R			CA292			CA292			CA292			CA292			CA292			CA292		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/9/2004			3/11/2003			3/12/2002			3/14/2001			6/15/2000			3/17/1999			6/10/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	1 / 27	<	0.22	U	<	0.16	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.22	U	<	0.16	U	<	0.26	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.22	U	<	0.16	U	<	0.33	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.42	U	<	0.31	U	<	0.26	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.42	U	<	0.31	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.42	U	<	0.31	U	<	0.41	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.42	U	<	0.31	U	<	0.80	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.42	U	<	0.31	U	<	0.51	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.42	U	<	0.31	U	<	0.69	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.68	U	<	0.5	U	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.85	10 / 27	0.67	0.53		0.32	0.39	J	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	0.11 J	1 / 15	0.11	0.22	J		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.22	U	<	0.16	U	<	0.46	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	5.85	18 / 27	2	0.22		1.8	0.16		1.2	0.65		1.1	0.8		0.59	0.8		<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.42	U	<	0.31	U	<	1.1	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-EXPLOSIVES

FIELD ID			CA292			CA292			CA292			CA292			CA292			CA292		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	9/30/1997			2/19/1997			7/12/1994			6/8/1994			10/5/1992			9/6/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	1 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.85	10 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	0.11 J	1 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	5.85	18 / 27	<	0.558	U	<	0.558	U	5.85	NRL		5.48	NRL		<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-EXPLOSIVES

FIELD ID			CA310	CA310	CA310					CA310				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/25/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 25			<	UJ	0.033	0.11	0.16	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 25			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 25			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.15
2,4-Dinitrotoluene	-	0 / 25			<	UJ	0.053	0.11	0.14	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 25	**Abandoned**	**Not Sampled**	<	UJ	0.053	0.11	0.14	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 25	**2020**	**in 2019, 2020**	<	UJ	0.032	0.11	0.16	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 21			<	UJ	0.093	0.21	0.53	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 21			<	UJ	0.06	0.21	0.53	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 21			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.15
4-Nitrotoluene	-	0 / 21			<	UJ	0.093	0.21	0.53	<	U	0.091	0.21	0.52
HMX	-	0 / 25			<	UJ	0.03	0.11	0.16	<	U	0.037	0.1	0.15
MNX	-	0 / 13			<	UJ	0.038	0.11	0.53	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 25			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.15
RDX	1.1	1 / 25			<	UJ	0.038	0.11	0.16	<	U	0.037	0.1	0.15
Tetryl	-	0 / 23			<	UJ	0.053	0.11	0.16	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-EXPLOSIVES

FIELD ID			CA310					CA310					CA310			CA310			CA310		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					None					8/11/2014			3/4/2013			2/27/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 25	<	0.21	0.42	1	U						<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 25	<	0.093	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.076	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 25	<	0.087	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 25	<	0.067	0.21	0.21	U	**No 2015 Sample**					<	0.2	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.053	0.13	0.21	U	**Well Dry**					<	0.2	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 21	<	0.089	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 21	<	0.087	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.06	0.13	0.21	U						<	0.2	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 21	<	0.21	0.42	1	U						<	1	U	<	0.8	U	<	0.8	U
HMX	-	0 / 25	<	0.091	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
MNX	-	0 / 13	<	0.37	0.37	2.1	U						<	2	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 25	<	0.095	0.21	0.42	U						<	0.4	U	<	0.8	U	<	0.8	U
RDX	1.1	1 / 25	<	0.055	0.13	0.21	U						<	0.2	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 23	<	0.083	0.21	0.25	U						<	0.24	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-EXPLOSIVES

FIELD ID			CA310			CA310			CA310			CA310			CA310			CA310			CA310		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/5/2007			3/6/2006			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
1,3-Dinitrobenzene	-	0 / 25	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
2,4,6-Trinitrotoluene	-	0 / 25	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	**No 2005 Sample**		
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	**Well Dry**		
2-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
HMX	-	0 / 25	<	0.8	U	<	0.41	U	<	0.49	UJ	<	0.48	U	<	0.48	U	<	0.48	U			
MNX	-	0 / 13	<	0.8	U	<	2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
Nitrobenzene	-	0 / 25	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
RDX	1.1	1 / 25	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			
Tetryl	-	0 / 23	<	0.8	U	<	0.24	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U			

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-EXPLOSIVES

FIELD ID			CA310			CA310			CA310			CA310			CA310			CA310			CA310		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/12/2002			3/13/2001			6/15/2000			3/15/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.25	U	<	0.23	U	<	0.33	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 25	<	0.25	U	<	0.23	U	<	0.22	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.25	U	<	0.23	U	<	0.28	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 25	<	0.48	U	<	0.45	U	<	0.22	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 25	<	0.48	U	<	0.45	U	<	0.86	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.48	U	<	0.45	U	<	0.35	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.45	U	<	0.68	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.45	U	<	0.43	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.48	U	<	0.45	U	<	0.58	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 21	<	0.78	U	<	0.73	U	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 25	<	0.6	U	<	0.57	U	<	0.94	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 13	<	0.25	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 25	<	0.25	U	<	0.23	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	1.1	1 / 25	<	0.25	U	<	0.23	U	<	0.55	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 23	<	0.48	U	<	0.45	U	<	0.91	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-EXPLOSIVES

FIELD ID			CA310			CA310			CA310			CA310			CA310			CA310		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	9/30/1997			2/18/1997			7/12/1994			6/8/1994			10/7/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 25	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 25	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 25	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 25	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 21	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 21	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 21	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	-	0 / 25	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 13		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 25	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	1.1	1 / 25	<	0.558	U	<	0.558	U	<	0.412	U	1.1	NRL		<	1.17	U	<	1.17	U
Tetryl	-	0 / 23	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-EXPLOSIVES

FIELD ID			CA311	CA311	CA311					CA311				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/25/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 27			<	U	0.032	0.1	0.15	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 27			<	U	0.052	0.1	0.15	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 27			<	U	0.052	0.1	0.15	<	U	0.052	0.1	0.15
2,4-Dinitrotoluene	-	0 / 27			<	U	0.052	0.1	0.13	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	U	0.052	0.1	0.13	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	U	0.031	0.1	0.15	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 23			<	U	0.091	0.21	0.52	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	U	0.059	0.21	0.52	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	U	0.052	0.1	0.15	<	U	0.052	0.1	0.15
4-Nitrotoluene	-	0 / 23			<	U	0.091	0.21	0.52	<	U	0.091	0.21	0.52
HMX	0.27	2 / 27			0.22		0.029	0.1	0.15	0.27		0.037	0.1	0.15
MNX	-	0 / 15			<	U	0.037	0.1	0.52	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 27			<	U	0.052	0.1	0.15	<	U	0.052	0.1	0.15
RDX	2.21	22 / 27			0.33		0.037	0.1	0.15	0.56		0.037	0.1	0.15
Tetryl	-	0 / 25			<	U	0.052	0.1	0.15	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-EXPLOSIVES

FIELD ID			CA311					CA311					CA311			CA311			CA311		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					8/6/2015					8/11/2014			3/4/2013			2/27/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 27	<	0.21	0.41	1	U	<	0.42	0.42	1.1	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.092	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.075	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.087	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.067	0.21	0.21	U	<	0.21	0.21	0.21	U	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.053	0.12	0.21	U	<	0.13	0.13	0.21	U	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.089	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.086	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.06	0.12	0.21	U	<	0.13	0.13	0.21	U	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.21	0.41	1	U	<	0.42	0.42	1.1	U	<	1	U	<	0.8	U	<	0.8	U
HMX	0.27	2 / 27	<	0.091	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.37	0.37	2.1	U	<	0.38	0.38	2.1	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.094	0.21	0.41	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
RDX	2.21	22 / 27	0.57	0.054	0.12	0.21		1	1.0	0.13	0.21		0.99	0.21		0.84	0.8	J	0.61	0.8	J
Tetryl	-	0 / 25	<	0.082	0.21	0.25	U	<	0.21	0.21	0.25	U	<	0.25	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-EXPLOSIVES

FIELD ID			CA311			CA311			CA311			CA311			CA311			CA311			CA311		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/5/2007			3/7/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.8	U	<	0.98	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.39	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.39	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.39	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.39	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.39	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.98	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
HMX	0.27	2 / 27	<	0.8	U	<	0.39	U	<	0.48	UJ	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.39	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U
RDX	2.21	22 / 27	0.9	0.8		0.21	0.2		<	0.48	U	1.1	0.49		1.1	0.49		1.2	0.48		1.4	0.48	
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-EXPLOSIVES

FIELD ID			CA311			CA311			CA311			CA311			CA311			CA311			CA311		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			3/12/2002			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/12/2002			3/13/2001			6/15/2000			3/16/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.21	U	<	0.18	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.21	U	<	0.18	U	<	0.29	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.21	U	<	0.18	U	<	0.37	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.41	U	<	0.36	U	<	0.29	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.41	U	<	0.36	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.41	U	<	0.36	U	<	0.46	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.41	U	<	0.36	U	<	0.90	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.41	U	<	0.36	U	<	0.57	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.41	U	<	0.36	U	<	0.77	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.67	U	<	0.58	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.27	2 / 27	<	0.52	U	<	0.45	U	<	1.2	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.21	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.21	U	<	0.18	U	<	0.51	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	2.21	22 / 27	1.6	0.21		1.5	0.18		1.6	0.73		1.2	0.8		1.1	0.8		2.21	0.8		1.04	1.00	
Tetryl	-	0 / 25	<	0.41	U	<	0.36	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-EXPLOSIVES

FIELD ID			CA311			CA311			CA311			CA311			CA311			CA311		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	9/30/1997			2/18/1997			7/12/1994			6/8/1994			10/9/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.27	2 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	2.21	22 / 27	2.06	0.558		<	0.558	U	1.14	NRL		<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-EXPLOSIVES

FIELD ID			CA312	CA312	CA312					CA312				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/24/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	0.127	1 / 27			<	U	0.032	0.1	0.16	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 27			<	U	0.052	0.1	0.16	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 27			<	U	0.052	0.1	0.16	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 27			<	U	0.052	0.1	0.13	<	U	0.052	0.1	0.14
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	U	0.052	0.1	0.13	<	U	0.052	0.1	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	U	0.031	0.1	0.16	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 23			<	U	0.091	0.21	0.52	<	U	0.092	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	U	0.059	0.21	0.52	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 25			<	U	0.052	0.1	0.16	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 23			<	U	0.091	0.21	0.52	<	U	0.092	0.21	0.52
HMX	0.8	11 / 27			0.61		0.029	0.1	0.16	<	U	0.038	0.1	0.16
MNX	0.17 J	1 / 15			<	U	0.037	0.1	0.52	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 27			<	U	0.052	0.1	0.16	<	U	0.052	0.1	0.16
RDX	5.2	27 / 27			0.85		0.037	0.1	0.16	0.6		0.038	0.1	0.16
Tetryl	-	0 / 25			<	U	0.052	0.1	0.16	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-EXPLOSIVES

FIELD ID			CA312					CA312					CA312			CA312			CA312		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					8/6/2015					8/11/2014			3/4/2013			2/28/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	0.127	1 / 27	<	0.21	0.42	1	U	<	0.41	0.41	1.0	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.093	0.21	0.42	U	<	0.20	0.20	0.41	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.076	0.21	0.42	U	<	0.20	0.20	0.41	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.087	0.21	0.42	U	<	0.20	0.20	0.41	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.067	0.21	0.21	U	<	0.20	0.20	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.053	0.13	0.21	U	<	0.12	0.12	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.089	0.21	0.42	U	<	0.20	0.20	0.41	UJ	<	0.41	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.087	0.21	0.42	U	<	0.20	0.20	0.41	UJ	<	0.41	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 25	<	0.06	0.13	0.21	U	<	0.12	0.12	0.20	U	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.21	0.42	1	U	<	0.41	0.41	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U
HMX	0.8	11 / 27	0.23	0.091	0.21	0.42	J	0.80	0.80	0.20	0.41		0.58	0.41		0.68	0.8	J	0.45	0.8	J
MNX	0.17 J	1 / 15	<	0.37	0.37	2.1	U	<	0.37	0.37	2.0	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.095	0.21	0.42	U	<	0.20	0.20	0.41	U	<	0.41	U	<	0.8	U	<	0.8	U
RDX	5.2	27 / 27	0.47	0.055	0.13	0.21		1.6	1.6	0.12	0.20		1.6	0.21		2.1	0.8	J	2.1	0.8	
Tetryl	-	0 / 25	<	0.083	0.21	0.25	U	<	0.20	0.20	0.25	U	<	0.25	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-EXPLOSIVES

FIELD ID			CA312			CA312			CA312			CA312			CA312			CA312			CA312		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/5/2007			3/6/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.127	1 / 27	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
HMX	0.8	11 / 27	0.38	0.8	J	0.4	0.4		<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	0.39	0.48	J
MNX	0.17 J	1 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
RDX	5.2	27 / 27	2.1	0.8		1.5	0.2		1.8	0.48		3.5	0.48		4.1	0.5		3.4	0.48		4	0.48	
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-EXPLOSIVES

FIELD ID			CA312			CA312			CA312			CA312			CA312			CA312			CA312		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/11/2002			3/13/2001			6/15/2000			3/16/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.127	1 / 27	<	0.27	U	<	0.16	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.27	U	<	0.16	U	<	0.26	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.27	U	<	0.16	U	<	0.33	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.52	U	<	0.31	U	<	0.26	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.52	U	<	0.31	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.52	U	<	0.31	U	<	0.41	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.52	U	<	0.31	U	<	0.80	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.52	U	<	0.31	U	<	0.51	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 25	<	0.52	U	<	0.31	U	<	0.69	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.83	U	<	0.5	U	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.8	11 / 27	0.5	0.65	J	0.34	0.39	J	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	0.17 J	1 / 15	0.17	0.27	J		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.27	U	<	0.16	U	<	0.46	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	5.2	27 / 27	5.2	0.27		4.3	0.16		4.7	0.65		3.6	0.8		3	0.8		2.93	0.8		2.85	1.00	
Tetryl	-	0 / 25	<	0.52	U	<	0.31	U	<	1.1	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-EXPLOSIVES

FIELD ID			CA312			CA312			CA312			CA312			CA312			CA312		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	9/30/1997			2/18/1997			7/12/1994			6/8/1994			10/7/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	0.127	1 / 27	<	0.125	U	0.127	0.125		<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.954	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 25	<	0.309	U	<	0.309	U	<	0.414	U	<	0.704	U		NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	0.8	11 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	0.17 J	1 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	5.2	27 / 27	3.42	0.558		4.09	0.558		4.41	NRL		3.76	NRL		2.06	NRL		2.06	NRL	
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-EXPLOSIVES

FIELD ID			CA313	CA313	CA313					CA313				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/16/2018					3/24/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 27			<	U	0.035	0.11	0.17	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 27			<	U	0.056	0.11	0.17	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 27			<	U	0.056	0.11	0.17	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 27			<	U	0.056	0.11	0.15	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 27	**Abandoned**	**Not Sampled**	<	U	0.056	0.11	0.15	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 27	**2020**	**in 2019, 2020**	<	U	0.034	0.11	0.17	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 23			<	U	0.099	0.22	0.56	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	U	0.064	0.22	0.56	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	U	0.056	0.11	0.17	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 23			<	U	0.099	0.22	0.56	<	U	0.091	0.21	0.52
HMX	-	0 / 27			<	U	0.031	0.11	0.17	<	U	0.037	0.1	0.16
MNX	-	0 / 15			<	U	0.04	0.11	0.56	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 27			<	U	0.056	0.11	0.17	<	U	0.052	0.1	0.16
RDX	-	0 / 27			<	U	0.04	0.11	0.17	<	U	0.037	0.1	0.16
Tetryl	-	0 / 25			<	U	0.056	0.11	0.17	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-EXPLOSIVES

FIELD ID			CA313					CA313					CA313			CA313			CA313		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					8/6/2015					8/11/2014			3/5/2013			2/28/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 27	<	0.21	0.42	1	U	<	0.42	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 27	<	0.092	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.075	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 27	<	0.087	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 27	<	0.067	0.21	0.21	U	<	0.21	0.21	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.053	0.12	0.21	U	<	0.12	0.12	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.089	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.087	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.06	0.12	0.21	U	<	0.12	0.12	0.21	U	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.21	0.42	1	U	<	0.42	0.42	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U
HMX	-	0 / 27	<	0.091	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.41	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.37	0.37	2.1	U	<	0.37	0.37	2.1	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	0.095	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.41	U	<	0.8	U	<	0.8	U
RDX	-	0 / 27	<	0.054	0.12	0.21	U	<	0.12	0.12	0.21	U	<	0.21	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 25	<	0.083	0.21	0.25	U	<	0.21	0.21	0.25	U	<	0.25	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-EXPLOSIVES

FIELD ID			CA313			CA313			CA313			CA313			CA313			CA313			CA313		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/8/2007			3/7/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
HMX	-	0 / 27	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
RDX	-	0 / 27	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.49	U	<	0.48	U	<	0.50	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-EXPLOSIVES

FIELD ID			CA313			CA313			CA313			CA313			CA313			CA313			CA313		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/11/2002			3/13/2001			6/15/2000			3/16/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 27	<	0.33	U	<	0.24	U	<	0.56	U	<	0.8	U	<	0.8	U	<	0.4	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 27	<	0.33	U	<	0.24	U	<	0.37	U	<	0.8	U	<	0.8	U	<	1	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.33	U	<	0.24	U	<	0.47	U	<	0.8	U	<	1.5	U	<	1	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 27	<	0.64	U	<	0.46	U	<	0.37	U	<	0.8	U	<	1.1	U	<	0.6	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 27	<	0.64	U	<	0.46	U	<	1.4	U	<	0.8	U	<	1.1	U	<	1	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.64	U	<	0.46	U	<	0.58	U	<	0.8	U	<	1	U	<	1	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.64	U	<	0.46	U	<	1.1	U	<	0.8	U	<	1.1	U	<	1	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.64	U	<	0.46	U	<	0.72	U	<	0.8	U	<	1.1	U	<	1	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.64	U	<	0.46	U	<	0.98	U	<	0.8	U	<	1	U	<	1	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	1	U	<	0.74	U	<	2.3	U	<	0.8	U	<	1.1	U	<	1	U	<	1.00	U
HMX	-	0 / 27	<	0.8	U	<	0.58	U	<	1.6	U	<	1	U	<	0.8	U	<	1	U	<	0.500	U
MNX	-	0 / 15	<	0.33	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.33	U	<	0.24	U	<	0.65	U	<	0.8	U	<	0.8	U	<	1	U	<	0.500	U
RDX	-	0 / 27	<	0.33	U	<	0.24	U	<	0.93	U	<	0.8	U	<	0.8	U	<	1	U	<	1.00	U
Tetryl	-	0 / 25	<	0.64	U	<	0.46	U	<	1.5	U	<	0.8	U	<	1.3	U	<	1	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-EXPLOSIVES

FIELD ID			CA313			CA313			CA313			CA313			CA313			CA313		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW32		
COLLECT DATE	Detection	Frequency	9/30/1997			12/12/1996			7/14/1994			6/9/1994			10/7/1992			9/7/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 27	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 27	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 27	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 27	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 27	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.158	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA			NA			NA	
HMX	-	0 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	1.21	U
MNX	-	0 / 15		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.645	U
RDX	-	0 / 27	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	1.17	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-EXPLOSIVES

FIELD ID			CA322			CA322			CA322			CA322			CA322			CA322			CA322		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/5/2013			2/28/2012			3/1/2011			3/5/2010			3/3/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 20	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**2020**			**in 2014 through 2020**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U	<	0.48	U
HMX	0.14 J	1 / 20							<	0.8	U	0.14	0.8	J	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 20							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-EXPLOSIVES

FIELD ID			CA322			CA322			CA322			CA322			CA322			CA322			CA322		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2008			3/5/2007			3/7/2006			3/8/2005			3/9/2004			3/11/2003			3/12/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.24	U	<	0.39	U
1,3-Dinitrobenzene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.24	U	<	0.26	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.24	U	<	0.33	U
2,4-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	1.0	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	0.41	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	0.80	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	0.69	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.93	U	<	0.75	U	<	1.6	U
HMX	0.14 J	1 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.72	U	<	0.58	U	<	1.1	U
MNX	-	0 / 10	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.3	U		NA			NA	
Nitrobenzene	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.24	U	<	0.46	U
RDX	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.3	U	<	0.24	U	<	0.65	U
Tetryl	-	0 / 20	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.46	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-EXPLOSIVES

FIELD ID			CA322			CA322			CA322			CA322			CA322			CA322			CA322		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/13/2001			3/8/2000			3/16/1999			6/10/1998			9/30/1997			12/12/1996			8/24/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 20	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	0.14 J	1 / 20	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	-	0 / 20	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 20	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-EXPLOSIVES

FIELD ID			CA322		
METHOD	Maximum	Detection	UW33		
COLLECT DATE	Detection	Frequency	7/13/1994		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 20	<	0.425	U
1,3-Dinitrobenzene	-	0 / 20	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 20	<	0.451	U
2,4-Dinitrotoluene	-	0 / 20	<	0.26	U
2,6-Dinitrotoluene	-	0 / 20	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.244	U
2-Nitrotoluene	-	0 / 18		NA	
3-Nitrotoluene	-	0 / 18		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA	
4-Nitrotoluene	-	0 / 18		NA	
HMX	0.14 J	1 / 20	<	0.563	U
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 20	<	0.817	U
RDX	-	0 / 20	<	0.412	U
Tetryl	-	0 / 20	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-EXPLOSIVES

FIELD ID			CA330	CA330	CA330					CA330				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/15/2018					3/24/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	0.11 J	1 / 21			<	UJ	0.032	0.1	0.15	0.11	J	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.15
2,4,6-Trinitrotoluene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.15
2,4-Dinitrotoluene	-	0 / 21			<	UJ	0.051	0.1	0.13	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 21	**Abandoned**	**Not Sampled**	<	UJ	0.051	0.1	0.13	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 21	**2020**	**in 2019, 2020**	<	UJ	0.031	0.1	0.15	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 21			<	UJ	0.09	0.2	0.51	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 21			<	UJ	0.058	0.2	0.51	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.15
4-Nitrotoluene	-	0 / 21			<	UJ	0.09	0.2	0.51	<	U	0.091	0.21	0.52
HMX	-	0 / 21			<	UJ	0.029	0.1	0.15	<	U	0.037	0.1	0.15
MNX	-	0 / 15			<	UJ	0.037	0.1	0.51	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.15
RDX	-	0 / 21			<	UJ	0.037	0.1	0.15	<	U	0.037	0.1	0.15
Tetryl	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-EXPLOSIVES

FIELD ID			CA330					CA330					CA330			CA330			CA330		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					8/7/2015					8/11/2014			3/4/2013			2/27/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	0.11 J	1 / 21	<	0.21	0.42	1.1	U	<	0.42	0.42	1.0	UJ	<	1	UJ	<	0.8	UJ	<	0.8	U
1,3-Dinitrobenzene	-	0 / 21	<	0.094	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.076	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 21	<	0.088	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 21	<	0.068	0.21	0.21	U	<	0.21	0.21	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.054	0.13	0.21	U	<	0.13	0.13	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 21	<	0.09	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	UJ	<	0.8	UJ	<	0.8	U
3-Nitrotoluene	-	0 / 21	<	0.088	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	UJ	<	0.8	UJ	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.061	0.13	0.21	UJ	<	0.13	0.13	0.21	UJ	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 21	<	0.21	0.42	1.1	U	<	0.42	0.42	1.0	UJ	<	1	UJ	<	0.8	UJ	<	0.8	U
HMX	-	0 / 21	<	0.093	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.38	0.38	2.1	U	<	0.37	0.37	2.1	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 21	<	0.096	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.41	UJ	<	0.8	UJ	<	0.8	U
RDX	-	0 / 21	<	0.055	0.13	0.21	U	<	0.13	0.13	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 21	<	0.084	0.21	0.25	U	<	0.21	0.21	0.25	UJ	<	0.25	UJ	<	1.6	UJ	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-EXPLOSIVES

FIELD ID			CA330			CA330			CA330			CA330			CA330			CA330			CA330		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/5/2010			3/2/2009			3/3/2008			3/5/2007			3/6/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.11 J	1 / 21	<	0.8	U	<	0.99	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.99	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.49	UJ	<	0.48	U	<	0.48	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	-	0 / 21	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 21	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	UJ	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-EXPLOSIVES

FIELD ID			CA330			CA330			CA330			CA330			CA330			CA330			CA330		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/12/2002			3/12/2001			6/14/2000			3/15/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.11 J	1 / 21	<	0.46	U	<	0.22	U	<	0.30	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 21	<	0.46	U	<	0.22	U	<	0.20	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.46	U	<	0.22	U	<	0.25	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 21	<	0.89	U	<	0.43	U	<	0.20	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 21	<	0.89	U	<	0.43	U	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.89	U	<	0.43	U	<	0.31	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 21	<	0.89	U	<	0.43	U	<	0.61	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 21	<	0.89	U	<	0.43	U	<	0.39	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.89	U	<	0.43	U	<	0.52	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 21	<	1.4	U	<	0.69	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 21	<	1.1	U	<	0.54	U	<	0.85	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.46	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.46	U	<	0.22	U	<	0.35	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 21	<	0.46	U	<	0.22	U	<	0.50	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 21	<	0.89	U	<	0.43	U	<	0.82	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-EXPLOSIVES

FIELD ID			CA331	CA331	CA331					CA331				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/15/2018					3/23/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 21			<	UJ	0.032	0.1	0.15	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 21			<	UJ	0.051	0.1	0.13	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 21	**Abandoned**	**Not Sampled**	<	UJ	0.051	0.1	0.13	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 21	**2020**	**in 2019, 2020**	<	UJ	0.031	0.1	0.15	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 21			<	UJ	0.09	0.2	0.51	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 21			<	UJ	0.058	0.2	0.51	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 21			<	UJ	0.09	0.2	0.51	<	U	0.091	0.21	0.52
HMX	-	0 / 21			<	UJ	0.029	0.1	0.15	<	U	0.037	0.1	0.16
MNX	-	0 / 15			<	UJ	0.037	0.1	0.51	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.16
RDX	0.99	6 / 21			<	UJ	0.037	0.1	0.15	<	U	0.037	0.1	0.16
Tetryl	-	0 / 21			<	UJ	0.051	0.1	0.15	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-EXPLOSIVES

FIELD ID			CA331					CA331					CA331			CA331			CA331		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					8/7/2015					8/12/2014			3/4/2013			2/28/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 21	<	0.21	0.42	1	U	<	0.40	0.40	1.0	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 21	<	0.093	0.21	0.42	U	<	0.20	0.20	0.40	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.076	0.21	0.42	U	<	0.20	0.20	0.40	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 21	<	0.088	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 21	<	0.068	0.21	0.21	U	<	0.20	0.20	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.053	0.13	0.21	U	<	0.12	0.12	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 21	<	0.09	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 21	<	0.087	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.06	0.13	0.21	U	<	0.12	0.12	0.20	U	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 21	<	0.21	0.42	1	U	<	0.40	0.40	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U
HMX	-	0 / 21	<	0.092	0.21	0.42	U	<	0.20	0.20	0.40	U	<	0.41	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.38	0.38	2.1	U	<	0.36	0.36	2.0	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 21	<	0.095	0.21	0.42	U	<	0.20	0.20	0.40	U	<	0.41	U	<	0.8	U	<	0.8	U
RDX	0.99	6 / 21	<	0.055	0.13	0.21	U	<	0.12	0.12	0.20	U	<	0.21	J	0.23	0.8	J	0.6	0.8	J
Tetryl	-	0 / 21	<	0.083	0.21	0.25	U	<	0.20	0.20	0.24	U	<	0.25	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-EXPLOSIVES

FIELD ID			CA331			CA331			CA331			CA331			CA331			CA331			CA331		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/5/2010			3/2/2009			3/3/2008			3/5/2007			3/6/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	1	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
2-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
3-Nitrotoluene	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
4-Nitrotoluene	-	0 / 21	<	0.8	U	<	1	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
HMX	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	UJ	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
MNX	-	0 / 15	<	0.8	U	<	2	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.4	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U
RDX	0.99	6 / 21	<	0.8	U	<	0.2	UJ	<	0.48	U	<	0.49	U	0.96	0.49		0.9	0.48		0.99	0.52	
Tetryl	-	0 / 21	<	0.8	U	<	0.24	UJ	<	0.48	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.52	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-EXPLOSIVES

FIELD ID			CA331			CA331			CA331			CA331			CA331			CA331			CA331		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/12/2002			3/12/2001			6/14/2000			3/15/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.16	U	<	0.19	U	<	0.38	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 21	<	0.16	U	<	0.19	U	<	0.25	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	-	0 / 21	<	0.16	U	<	0.19	U	<	0.32	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	UJ
2,4-Dinitrotoluene	-	0 / 21	<	0.31	U	<	0.36	U	<	0.25	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2,6-Dinitrotoluene	-	0 / 21	<	0.31	U	<	0.36	U	<	0.98	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.31	U	<	0.36	U	<	0.40	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ
2-Nitrotoluene	-	0 / 21	<	0.31	U	<	0.36	U	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 21	<	0.31	U	<	0.36	U	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.31	U	<	0.36	U	<	0.67	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ
4-Nitrotoluene	-	0 / 21	<	0.5	U	<	0.58	U	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	-	0 / 21	<	0.39	U	<	0.46	U	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ
MNX	-	0 / 15	<	0.16	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.16	U	<	0.19	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	0.99	6 / 21	0.38	0.16	J	<	0.19	U	<	0.63	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ
Tetryl	-	0 / 21	<	0.31	U	<	0.36	U	<	1.0	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-EXPLOSIVES

FIELD ID			CA332	CA332	CA332					CA332				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/15/2018					3/23/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 24			<	UJ	0.032	0.1	0.16	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 24			<	UJ	0.052	0.1	0.16	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 24			<	UJ	0.052	0.1	0.16	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 24			<	UJ	0.052	0.1	0.13	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**	**Not Sampled**	<	UJ	0.052	0.1	0.13	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 24	**2020**	**in 2019, 2020**	<	UJ	0.031	0.1	0.16	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 22			<	UJ	0.091	0.21	0.52	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 22			<	UJ	0.059	0.21	0.52	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 22			<	UJ	0.052	0.1	0.16	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 22			<	UJ	0.091	0.21	0.52	<	U	0.091	0.21	0.52
HMX	-	0 / 24			<	UJ	0.029	0.1	0.16	<	U	0.037	0.1	0.16
MNX	-	0 / 15			<	UJ	0.037	0.1	0.52	<	U	0.029	0.1	0.52
Nitrobenzene	-	0 / 24			<	UJ	0.052	0.1	0.16	<	U	0.052	0.1	0.16
RDX	2.3	12 / 24			<	UJ	0.037	0.1	0.16	<	U	0.037	0.1	0.16
Tetryl	-	0 / 24			<	UJ	0.052	0.1	0.16	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-EXPLOSIVES

FIELD ID			CA332					CA332					CA332			CA332			CA332		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/2/2016					8/7/2015					8/12/2014			3/4/2013			2/27/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 24	<	0.21	0.42	1	U	<	0.42	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 24	<	0.093	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.076	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 24	<	0.088	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.42	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 24	<	0.067	0.21	0.21	U	<	0.21	0.21	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.053	0.13	0.21	U	<	0.060	0.13	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 22	<	0.089	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.42	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 22	<	0.087	0.21	0.42	U	<	0.21	0.21	0.42	UJ	<	0.42	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.06	0.13	0.21	U	<	0.13	0.13	0.21	U	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 22	<	0.21	0.42	1	U	<	0.42	0.42	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U
HMX	-	0 / 24	<	0.092	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.37	0.37	2.1	U	<	0.37	0.37	2.1	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 24	<	0.095	0.21	0.42	U	<	0.21	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U
RDX	2.3	12 / 24	<	0.055	0.13	0.21	U	<	0.13	0.13	0.21	U	0.2	0.21	J	0.35	0.8	J	0.64	0.8	J
Tetryl	-	0 / 24	<	0.083	0.21	0.25	U	<	0.21	0.21	0.25	U	<	0.25	UJ	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-EXPLOSIVES

FIELD ID			CA332			CA332			CA332			CA332			CA332			CA332			CA332		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	2/28/2011			3/5/2010			3/2/2009			3/3/2008			3/5/2007			3/6/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
2-Nitrotoluene	-	0 / 22	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
3-Nitrotoluene	-	0 / 22	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
4-Nitrotoluene	-	0 / 22	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
HMX	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U
RDX	2.3	12 / 24	1	0.8		0.8	0.2		1.3	0.48		2.1	0.48		1.8	0.5		2.3	0.48		1.8	0.5	
Tetryl	-	0 / 24	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-EXPLOSIVES

FIELD ID			CA332			CA332			CA332			CA332			CA332			CA332			CA332		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/12/2002			3/12/2001			6/14/2000			6/9/1998			9/30/1997		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.36	U	<	0.16	U	<	0.36	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 24	<	0.36	U	<	0.16	U	<	0.24	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.36	U	<	0.16	U	<	0.30	U	<	0.8	U	<	1.5	U	<	0.500	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 24	<	0.7	U	<	0.31	U	<	0.24	U	<	0.8	U	<	1.1	U	<	0.500	U	<	0.233	U
2,6-Dinitrotoluene	-	0 / 24	<	0.7	U	<	0.31	U	<	0.93	U	<	0.8	U	<	1.1	U	<	0.500	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.7	U	<	0.31	U	<	0.38	U	<	0.8	U	<	1	U	<	0.500	U	<	0.173	U
2-Nitrotoluene	-	0 / 22	<	0.7	U	<	0.31	U	<	0.74	U	<	0.8	U	<	1.1	U	<	1.00	U	<	0.319	U
3-Nitrotoluene	-	0 / 22	<	0.7	U	<	0.31	U	<	0.46	U	<	0.8	U	<	1.1	U	<	1.00	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.7	U	<	0.31	U	<	0.63	U	<	0.8	U	<	1	U	<	1.00	U	<	0.309	U
4-Nitrotoluene	-	0 / 22	<	1.1	U	<	0.5	U	<	1.5	U	<	0.8	U	<	1.1	U	<	1.00	U	<	0.368	U
HMX	-	0 / 24	<	0.88	U	<	0.39	U	<	1.0	U	<	1	U	<	0.8	U	<	0.500	U	<	0.16	U
MNX	-	0 / 15	<	0.36	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.36	U	<	0.16	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U
RDX	2.3	12 / 24	0.88	0.36		0.19	0.16		<	0.60	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U
Tetryl	-	0 / 24	<	0.7	U	<	0.31	U	<	0.99	U	<	0.8	U	<	1.3	U	<	0.500	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-EXPLOSIVES

FIELD ID			CA332			CA332			CA332		
METHOD	Maximum	Detection	UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	12/12/1996			7/16/1994			6/23/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 24	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 24	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 24	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 24	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 22	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 22	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 22	<	0.368	U		NA			NA	
HMX	-	0 / 24	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 15		NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.231	U	<	0.817	U	<	0.817	U
RDX	2.3	12 / 24	<	0.558	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 24	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-EXPLOSIVES

FIELD ID			CA342	CA342	CA342					CA342				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/14/2018					3/23/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 25			<	U	0.032	0.1	0.15	<	U	0.034	0.11	0.16
1,3-Dinitrobenzene	-	0 / 25			<	U	0.051	0.1	0.15	<	U	0.054	0.11	0.16
2,4,6-Trinitrotoluene	-	0 / 25			<	U	0.051	0.1	0.15	<	U	0.054	0.11	0.16
2,4-Dinitrotoluene	-	0 / 25			<	U	0.051	0.1	0.13	<	U	0.054	0.11	0.14
2,6-Dinitrotoluene	-	0 / 25	**Abandoned**	**Not Sampled**	<	U	0.051	0.1	0.13	<	U	0.054	0.11	0.14
2-Amino-4,6-dinitrotoluene	-	0 / 25	**2020**	**in 2019, 2020**	<	U	0.031	0.1	0.15	<	U	0.032	0.11	0.16
2-Nitrotoluene	-	0 / 23			<	U	0.09	0.2	0.51	<	U	0.095	0.22	0.54
3-Nitrotoluene	-	0 / 23			<	U	0.058	0.2	0.51	<	U	0.062	0.22	0.54
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	U	0.051	0.1	0.15	<	U	0.054	0.11	0.16
4-Nitrotoluene	-	0 / 23			<	U	0.09	0.2	0.51	<	U	0.095	0.22	0.54
HMX	0.12 J	3 / 25			0.19		0.029	0.1	0.15	0.22		0.039	0.11	0.16
MNX	-	0 / 15			<	U	0.037	0.1	0.51	<	U	0.03	0.11	0.54
Nitrobenzene	-	0 / 25			<	U	0.051	0.1	0.15	<	U	0.054	0.11	0.16
RDX	2 J	15 / 25			0.6		0.037	0.1	0.15	0.76		0.039	0.11	0.16
Tetryl	-	0 / 25			<	U	0.051	0.1	0.15	<	U	0.054	0.11	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-EXPLOSIVES

FIELD ID			CA342					CA342					CA342			CA342			CA342		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/10/2015					8/6/2014			3/4/2013			2/27/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 25	<	0.21	0.42	1.1	U	<	0.43	0.43	1.1	UJ	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 25	<	0.093	0.21	0.42	U	<	0.21	0.21	0.43	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.076	0.21	0.42	U	<	0.21	0.21	0.43	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 25	<	0.088	0.21	0.42	U	<	0.21	0.21	0.43	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 25	<	0.068	0.21	0.21	U	<	0.21	0.21	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.053	0.13	0.21	U	<	0.13	0.13	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.09	0.21	0.42	U	<	0.21	0.21	0.43	UJ	<	0.41	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.088	0.21	0.42	U	<	0.21	0.21	0.43	UJ	<	0.41	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.061	0.13	0.21	U	<	0.13	0.13	0.21	UJ	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.21	0.42	1.1	U	<	0.43	0.43	1.1	UJ	<	1	U	<	0.8	U	<	0.8	U
HMX	0.12 J	3 / 25	<	0.092	0.21	0.42	U	<	0.21	0.21	0.43	U	<	0.41	U	<	0.8	U	0.12	0.8	J
MNX	-	0 / 15	<	0.38	0.38	2.1	U	<	0.38	0.38	2.1	U	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 25	<	0.096	0.21	0.42	U	<	0.21	0.21	0.43	UJ	<	0.41	U	<	0.8	U	<	0.8	U
RDX	2 J	15 / 25	0.89	0.055	0.13	0.21		0.80	0.80	0.13	0.21		<	0.21	J	0.62	0.8	J	2	0.8	J
Tetryl	-	0 / 25	<	0.084	0.21	0.25	U	<	0.21	0.21	0.26	UJ	<	0.25	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-EXPLOSIVES

FIELD ID			CA342			CA342			CA342			CA342			CA342			CA342			CA342		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/1/2011			3/5/2010			3/2/2009			3/4/2008			3/6/2007			3/6/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	0.12 J	3 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	2 J	15 / 25	1.7	0.8		1.4	0.2		<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-EXPLOSIVES

FIELD ID			CA342			CA342			CA342			CA342			CA342			CA342			CA342		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/8/2004			3/10/2003			3/11/2002			3/12/2001			6/14/2000			3/15/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.27	U	<	0.21	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 25	<	0.27	U	<	0.21	U	<	0.29	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.27	U	<	0.21	U	<	0.37	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 25	<	0.52	U	<	0.4	U	<	0.29	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 25	<	0.52	U	<	0.4	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.52	U	<	0.4	U	<	0.46	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.52	U	<	0.4	U	<	0.90	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.52	U	<	0.4	U	<	0.57	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.52	U	<	0.4	U	<	0.77	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.83	U	<	0.65	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	0.12 J	3 / 25	<	0.65	U	<	0.51	U	<	1.2	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.27	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 25	<	0.27	U	<	0.21	U	<	0.51	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	2 J	15 / 25	<	0.27	U	0.27	0.21		1.7	0.73		0.46	0.8	J	1.3	0.8		0.472	0.8	J	<	1.00	U
Tetryl	-	0 / 25	<	0.52	U	<	0.4	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-EXPLOSIVES

FIELD ID			CA342			CA342			CA342			CA342		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	9/29/1997			12/12/1996			7/15/1994			6/24/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 25	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 25	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 25	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 25	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA	
HMX	0.12 J	3 / 25	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 15		NA			NA			NA			NA	
Nitrobenzene	-	0 / 25	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	2 J	15 / 25	<	0.558	U	<	0.558	U	1.07	NRL		0.603	NRL	
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-EXPLOSIVES

FIELD ID			CA343	CA343	CA343					CA343				
METHOD	Maximum	Detection	SW846 M8330	SW846 M8330	SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None	None	3/14/2018					3/23/2017				
					Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 25			<	U	0.031	0.1	0.15	<	U	0.032	0.1	0.16
1,3-Dinitrobenzene	-	0 / 25			<	U	0.05	0.1	0.15	<	U	0.052	0.1	0.16
2,4,6-Trinitrotoluene	-	0 / 25			<	U	0.05	0.1	0.15	<	U	0.052	0.1	0.16
2,4-Dinitrotoluene	-	0 / 25			<	U	0.05	0.1	0.13	<	U	0.052	0.1	0.13
2,6-Dinitrotoluene	-	0 / 25	**Abandoned**	**Not Sampled**	<	U	0.05	0.1	0.13	<	U	0.052	0.1	0.13
2-Amino-4,6-dinitrotoluene	-	0 / 25	**2020**	**in 2019, 2020**	<	U	0.03	0.1	0.15	<	U	0.031	0.1	0.16
2-Nitrotoluene	-	0 / 23			<	U	0.088	0.2	0.5	<	U	0.091	0.21	0.52
3-Nitrotoluene	-	0 / 23			<	U	0.057	0.2	0.5	<	U	0.059	0.21	0.52
4-Amino-2,6-dinitrotoluene	-	0 / 23			<	U	0.05	0.1	0.15	<	U	0.052	0.1	0.16
4-Nitrotoluene	-	0 / 23			<	U	0.088	0.2	0.5	<	U	0.091	0.21	0.52
HMX	-	0 / 25			<	U	0.028	0.1	0.15	<	U	0.037	0.1	0.16
MNX	-	0 / 15			<	U	0.036	0.1	0.5	<	U	0.029	0.1	0.52
Nitrobenzene	0.56 J	1 / 25			<	U	0.05	0.1	0.15	<	U	0.052	0.1	0.16
RDX	0.46	4 / 25			0.37		0.036	0.1	0.15	0.4		0.037	0.1	0.16
Tetryl	-	0 / 25			<	U	0.05	0.1	0.15	<	U	0.052	0.1	0.16

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-EXPLOSIVES

FIELD ID			CA343					CA343					CA343			CA343			CA343		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/3/2016					8/10/2015					8/6/2014			3/4/2013			2/27/2012		
			Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 25	<	0.21	0.42	1	U	<	0.40	0.40	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 25	<	0.093	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.076	0.21	0.42	U	<	0.20	0.20	0.40	U	<	0.41	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 25	<	0.088	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 25	<	0.067	0.21	0.21	U	<	0.20	0.20	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.053	0.13	0.21	U	<	0.12	0.12	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 23	<	0.089	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 23	<	0.087	0.21	0.42	U	<	0.20	0.20	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.06	0.13	0.21	U	<	0.12	0.12	0.20	UJ	<	0.21	U	<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 23	<	0.21	0.42	1	U	<	0.40	0.40	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U
HMX	-	0 / 25	<	0.092	0.21	0.42	U	<	0.20	0.20	0.40	U	<	0.41	U	<	0.8	U	<	0.8	U
MNX	-	0 / 15	<	0.37	0.37	2.1	U	<	0.36	0.36	2.0	UJ	<	2.1	U	<	0.8	U	<	0.8	U
Nitrobenzene	0.56 J	1 / 25	<	0.095	0.21	0.42	U	<	0.20	0.16	0.40	UJ	<	0.41	U	<	0.8	U	<	0.8	J
RDX	0.46	4 / 25	0.46	0.055	0.13	0.21		0.24	0.24	0.12	0.20	J	<	0.21	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 25	<	0.083	0.21	0.25	U	<	0.20	0.20	0.24	UJ	<	0.25	U	<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-EXPLOSIVES

FIELD ID			CA343			CA343			CA343			CA343			CA343			CA343			CA343		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/1/2011			3/5/2010			3/3/2009			3/5/2008			3/5/2007			3/6/2006			3/7/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
2-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
3-Nitrotoluene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
4-Nitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
HMX	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
MNX	-	0 / 15	<	0.8	U	<	2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
Nitrobenzene	0.56 J	1 / 25	0.56	0.8	J	<	0.4	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
RDX	0.46	4 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.49	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-EXPLOSIVES

FIELD ID			CA343			CA343			CA343			CA343			CA343			CA343			CA343		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/15/2004			3/10/2003			3/11/2002			3/12/2001			6/14/2000			3/15/1999			6/9/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.16	U	<	0.21	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 25	<	0.16	U	<	0.21	U	<	0.28	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.16	U	<	0.21	U	<	0.35	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.500	U
2,4-Dinitrotoluene	-	0 / 25	<	0.31	U	<	0.4	U	<	0.28	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 25	<	0.31	U	<	0.4	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.31	U	<	0.4	U	<	0.44	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 23	<	0.31	U	<	0.4	U	<	0.86	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 23	<	0.31	U	<	0.4	U	<	0.54	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.31	U	<	0.4	U	<	0.74	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 23	<	0.5	U	<	0.64	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 25	<	0.39	U	<	0.5	U	<	1.2	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 15	<	0.16	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	0.56 J	1 / 25	<	0.16	U	<	0.21	U	<	0.49	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	0.46	4 / 25	<	0.16	U	<	0.21	U	<	0.70	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.31	U	<	0.4	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-EXPLOSIVES

FIELD ID			CA343			CA343			CA343			CA343		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	9/29/1997			12/12/1996			8/24/1994			7/15/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 25	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 25	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 25	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 25	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 23	<	0.319	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 23	<	0.514	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 23	<	0.309	U	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 23	<	0.368	U	<	0.368	U		NA			NA	
HMX	-	0 / 25	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 15		NA			NA			NA			NA	
Nitrobenzene	0.56 J	1 / 25	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	0.46	4 / 25	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

E.1 Explosives

E.1.4 OU1 OFF-POST NW WELLS

WELL	TABLE
NW010	E.1.4-1
NW011	E.1.4-2
NW020	E.1.4-3
NW021	E.1.4-4
NW022	E.1.4-5
NW030	E.1.4-6
NW031	E.1.4-7
NW032	E.1.4-8
NW040	E.1.4-9
NW041	E.1.4-10
NW050	E.1.4-11
NW051	E.1.4-12
NW052	E.1.4-13
NW060	E.1.4-14
NW061	E.1.4-15
NW062	E.1.4-16
NW070	E.1.4-17
NW071	E.1.4-18
NW080	E.1.4-19
NW081/NW081R	E.1.4-20
NW082/NW082R	E.1.4-21
NW090	E.1.4-22
NW091	E.1.4-23
NW100	E.1.4-24
NW101	E.1.4-25
NW102	E.1.4-26
NW120	E.1.4-27
NW121	E.1.4-28
NW122	E.1.4-29
NW130/NW130R	E.1.4-30
NW131/NW131R	E.1.4-31
NW132/NW132R	E.1.4-32

TABLE E.1.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW010-EXPLOSIVES

FIELD ID			NW010			NW010			NW010			NW010			NW010			NW010			NW010		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/15/2006			3/15/2005			3/15/2004			3/17/2003			3/19/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13							<	0.49	U	<	0.48	U	<	0.25	U	<	0.2	U	<	0.38	U
1,3-Dinitrobenzene	-	0 / 12							<	0.49	U	<	0.48	U	<	0.25	U	<	0.2	U	<	0.25	U
2,4,6-Trinitrotoluene	-	0 / 13							<	0.49	U	<	0.48	U	<	0.25	U	<	0.2	U	<	0.32	U
2,4-Dinitrotoluene	-	0 / 13							<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.25	U
2,6-Dinitrotoluene	-	0 / 13	**Abandoned**			**Not Sampled**			<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.98	U
2-Amino-4,6-dinitrotoluene	0.203	1 / 12	**2008**			**in 2007**			<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.40	U
2-Nitrotoluene	-	0 / 9							<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.78	U
3-Nitrotoluene	-	0 / 9							<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 9							<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	0.67	U
4-Nitrotoluene	-	0 / 9							<	0.49	U	<	0.48	U	<	0.78	U	<	0.62	U	<	1.6	U
HMX	-	0 / 12							<	0.49	U	<	0.48	U	<	0.61	U	<	0.48	U	<	1.1	U
MNX	-	0 / 3							<	0.49	U	<	0.48	U	<	0.25	U		NA			NA	
Nitrobenzene	-	0 / 12							<	0.49	U	<	0.48	U	<	0.25	U	<	0.2	U	<	0.44	U
RDX	-	0 / 13							<	0.49	U	<	0.48	U	<	0.25	U	<	0.2	U	<	0.63	U
Tetryl	-	0 / 11							<	0.49	U	<	0.48	U	<	0.49	U	<	0.38	U	<	1.0	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW010-EXPLOSIVES

FIELD ID			NW010			NW010			NW010			NW010			NW010			NW010			NW010		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/21/2001			3/14/2000			3/24/1999			6/14/1998			7/14/1994			6/11/1994			9/1/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U		NA		<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.637	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.738	U
2-Amino-4,6-dinitrotoluene	0.203	1 / 12	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	0.203	NRL	
2-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 12	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 3		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 11	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.180	U	<	1.180	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW010-EXPLOSIVES

FIELD ID			NW010		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 13	<	0.1	U
1,3-Dinitrobenzene	-	0 / 12	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.1	U
2,4-Dinitrotoluene	-	0 / 13	<	0.1	U
2,6-Dinitrotoluene	-	0 / 13	<	0.1	U
2-Amino-4,6-dinitrotoluene	0.203	1 / 12		NA	
2-Nitrotoluene	-	0 / 9		NA	
3-Nitrotoluene	-	0 / 9		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9		NA	
4-Nitrotoluene	-	0 / 9		NA	
HMX	-	0 / 12		NA	
MNX	-	0 / 3		NA	
Nitrobenzene	-	0 / 12		NA	
RDX	-	0 / 13	<	0.2	U
Tetryl	-	0 / 11		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW011-EXPLOSIVES

FIELD ID			NW011			NW011			NW011			NW011			NW011			NW011			NW011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/15/2006			3/15/2005			3/15/2004			3/17/2003			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.47	U
1,3-Dinitrobenzene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.31	U
2,4,6-Trinitrotoluene	-	0 / 13							<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.39	U
2,4-Dinitrotoluene	14	1 / 13							<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.31	U
2,6-Dinitrotoluene	-	0 / 13	**Abandoned**			**Not Sampled**			<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2008**			**in 2007**			<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.49	U
2-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.96	U
3-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.60	U
4-Amino-2,6-dinitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	0.82	U
4-Nitrotoluene	-	0 / 9							<	0.48	U	<	0.48	U	<	0.56	U	<	0.5	U	<	2.0	U
HMX	-	0 / 12							<	0.48	U	<	0.48	U	<	0.44	U	<	0.39	U	<	1.3	U
MNX	-	0 / 3							<	0.48	U	<	0.48	U	<	0.18	U		NA			NA	
Nitrobenzene	-	0 / 12							<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.55	U
RDX	7.91	1 / 13							<	0.48	U	<	0.48	U	<	0.18	U	<	0.16	U	<	0.78	U
Tetryl	-	0 / 11							<	0.48	U	<	0.48	U	<	0.35	U	<	0.31	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW011-EXPLOSIVES

FIELD ID			NW011			NW011			NW011			NW011			NW011			NW011			NW011		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/21/2001			3/14/2000			3/24/1999			6/14/1998			7/14/1994			6/11/1994			9/1/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	14	1 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	14	0.064	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U		NA			NA			NA	
HMX	-	0 / 12	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 3		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	7.91	1 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	-	0 / 11	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW011-EXPLOSIVES

FIELD ID			NW011		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 13	<	0.1	U
1,3-Dinitrobenzene	-	0 / 13	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.1	U
2,4-Dinitrotoluene	14	1 / 13	<	0.1	U
2,6-Dinitrotoluene	-	0 / 13	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 12		NA	
2-Nitrotoluene	-	0 / 9		NA	
3-Nitrotoluene	-	0 / 9		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 9		NA	
4-Nitrotoluene	-	0 / 9		NA	
HMX	-	0 / 12		NA	
MNX	-	0 / 3		NA	
Nitrobenzene	-	0 / 12		NA	
RDX	7.91	1 / 13	7.91	0.1	
Tetryl	-	0 / 11		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID			NW020					NW020					NW020					NW020				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/15/2020					6/10/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.3	24 / 34	<	U	0.086	0.2	0.21	<	U	0.087	0.21	0.22	<	U	0.2	0.39	0.98	0.22		0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 33	<	U	0.038	0.1	0.11	<	U	0.038	0.1	0.11	<	U	0.087	0.2	0.39	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	53	34 / 34	0.93	J	0.046	0.1	0.11	0.59		0.046	0.1	0.11	0.33	J	0.16	0.39	0.39	0.34		0.051	0.1	0.15
2,4-Dinitrotoluene	2.4	7 / 34	<	U	0.028	0.082	0.1	<	U	0.028	0.082	0.1	<	U	0.082	0.2	0.39	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	17.7	1 / 34	<	U	0.041	0.082	0.1	<	U	0.041	0.082	0.1	<	U	0.063	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	13	28 / 30	1.3	J	0.052	0.1	0.11	1.4		0.052	0.1	0.11	2		0.05	0.12	0.2	0.96		0.031	0.1	0.15
2-Nitrotoluene	1.1	1 / 26	<	UJ	0.087	0.2	0.21	<	U	0.088	0.21	0.22	<	UJ	0.084	0.2	0.39	<	U	0.09	0.21	0.51
3-Nitrotoluene	-	0 / 26	<	UJ	0.2	0.41	0.41	<	U	0.2	0.41	0.41	<	UJ	0.19	0.39	0.39	<	U	0.058	0.21	0.51
4-Amino-2,6-dinitrotoluene	10.8	27 / 27	1.3	J	0.059	0.12	0.15	1.8		0.059	0.12	0.15	1.8		0.056	0.12	0.2	1.1		0.051	0.1	0.15
4-Nitrotoluene	-	0 / 26	<	UJ	0.1	0.41	0.42	<	U	0.1	0.41	0.42	<	UJ	0.2	0.39	0.98	<	U	0.09	0.21	0.51
HMX	9.54	26 / 30	1.4	J	0.09	0.2	0.21	<	U	0.09	0.21	0.22	0.27	J	0.086	0.2	0.39	0.42		0.029	0.1	0.15
MNX	0.15 J	1 / 18	<	U	0.16	0.41	2	<	U	0.16	0.41	2.1	<	U	0.15	0.39	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 30	<	U	0.093	0.2	0.21	<	U	0.094	0.21	0.22	<	U	0.089	0.2	0.39	<	U	0.051	0.1	0.15
RDX	43	33 / 34	1		0.053	0.2	0.21	1.5		0.053	0.21	0.22	0.17	J	0.15	0.39	0.39	0.33		0.037	0.1	0.15
Tetryl	-	0 / 29	<	U	0.033	0.1	0.11	<	U	0.033	0.1	0.11	<	U	0.078	0.2	0.23	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID			NW020					NW020					NW020					NW020			NW020	
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330			SW846 M83	
COLLECT DATE	Detection	Frequency	3/28/2017					8/5/2016					8/11/2015					8/13/2014			3/20/2013	
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.3	24 / 34	0.25		0.032	0.1	0.15	<	0.22	0.44	1.1	U	<	0.21	0.41	1.0	UJ	0.32	1	J	0.5	0.8
1,3-Dinitrobenzene	-	0 / 33	<	U	0.051	0.1	0.15	<	0.096	0.22	0.44	U	<	0.092	0.21	0.41	UJ	<	0.41	U	<	0.8
2,4,6-Trinitrotoluene	53	34 / 34	0.33		0.051	0.1	0.15	0.36	0.079	0.22	0.44	J	0.29	0.075	0.21	0.41	J	0.41	0.41		0.7	0.8
2,4-Dinitrotoluene	2.4	7 / 34	<	U	0.051	0.1	0.13	<	0.091	0.22	0.44	U	<	0.087	0.21	0.41	UJ	<	0.41	U	<	0.8
2,6-Dinitrotoluene	17.7	1 / 34	<	U	0.051	0.1	0.13	<	0.07	0.22	0.22	U	<	0.067	0.21	0.21	UJ	<	0.21	U	<	0.8
2-Amino-4,6-dinitrotoluene	13	28 / 30	1.2		0.031	0.1	0.15	0.85	0.055	0.13	0.22		0.77	0.053	0.12	0.21	J	1.1	0.21	J	1	0.8
2-Nitrotoluene	1.1	1 / 26	<	U	0.09	0.2	0.51	<	0.093	0.22	0.44	U	<	0.089	0.21	0.41	UJ	<	0.41	U	<	0.8
3-Nitrotoluene	-	0 / 26	<	U	0.058	0.2	0.51	<	0.091	0.22	0.44	U	<	0.086	0.21	0.41	UJ	<	0.41	U	<	0.8
4-Amino-2,6-dinitrotoluene	10.8	27 / 27	0.55		0.051	0.1	0.15	0.35	0.063	0.13	0.22		0.85	0.060	0.12	0.21	J	0.77	0.21		1.5	1.4
4-Nitrotoluene	-	0 / 26	<	U	0.09	0.2	0.51	<	0.22	0.44	1.1	U	<	0.21	0.41	1.0	UJ	<	1	U	<	0.8
HMX	9.54	26 / 30	0.16		0.037	0.1	0.15	<	0.095	0.22	0.44	U	<	0.091	0.21	0.41	U	<	0.41	U	0.42	0.8
MNX	0.15 J	1 / 18	<	U	0.029	0.1	0.51	<	0.39	0.39	2.2	U	<	0.37	0.37	2.1	U	<	2.1	U	<	0.8
Nitrobenzene	-	0 / 30	<	U	0.051	0.1	0.15	<	0.099	0.22	0.44	U	<	0.094	0.21	0.41	UJ	<	0.41	U	<	0.8
RDX	43	33 / 34	0.17		0.037	0.1	0.15	<	0.057	0.13	0.22	U	0.31	0.054	0.12	0.21	J	0.29	0.21	J	1.6	0.8
Tetryl	-	0 / 29	<	U	0.051	0.1	0.15	<	0.086	0.22	0.26	U	<	0.082	0.21	0.25	UJ	<	0.25	UJ	<	1.6

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID				NW020		
METHOD	Maximum	Detection	30	SW846 M8330		
COLLECT DATE	Detection	Frequency		3/8/2012		
			Qual	Result	RL	Qual
EXPLOSIVES (µg/L)						
1,3,5-Trinitrobenzene	2.3	24 / 34	J	0.38	0.8	J
1,3-Dinitrobenzene	-	0 / 33	U	<	0.8	U
2,4,6-Trinitrotoluene	53	34 / 34	J	0.88	0.8	
2,4-Dinitrotoluene	2.4	7 / 34	U	<	0.8	U
2,6-Dinitrotoluene	17.7	1 / 34	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	13	28 / 30	J	1.2	0.8	
2-Nitrotoluene	1.1	1 / 26	U	<	0.8	U
3-Nitrotoluene	-	0 / 26	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	10.8	27 / 27	J	1.7	1.4	
4-Nitrotoluene	-	0 / 26	U	<	0.8	U
HMX	9.54	26 / 30	J	0.78	0.8	J
MNX	0.15 J	1 / 18	U	<	0.8	U
Nitrobenzene	-	0 / 30	U	<	0.8	U
RDX	43	33 / 34	J	2.2	0.8	
Tetryl	-	0 / 29	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID			NW020			NW020			NW020			NW020			NW020			NW020			NW020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/8/2011			3/9/2010			3/10/2009			3/10/2008			3/19/2007			3/14/2006			3/14/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	2.3	24 / 34	0.37	0.8	J	0.28	1	J	<	0.49	U	0.74	0.49		1	0.48		1.1	0.48		0.86	0.48	
1,3-Dinitrobenzene	-	0 / 33	<	0.8	U	<	0.41	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	53	34 / 34	1.1	0.8		1.7	0.41		3.1	0.49		4.1	0.49		3.3	0.48		5	0.48		5.8	0.48	
2,4-Dinitrotoluene	2.4	7 / 34	<	0.8	U	<	0.41	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	17.7	1 / 34	<	0.8	U	<	0.21	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	13	28 / 30	1.4	0.8		3.2	0.21		2.9	0.49		2.7	0.49		3.6	0.48		2.9	0.48		2	0.48	P
2-Nitrotoluene	1.1	1 / 26	<	0.8	U	<	0.41	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.41	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	10.8	27 / 27	1.1	0.8		1.3	0.21	J	3.2	0.49		2.8	0.49		3.1	0.48		3.6	0.48		2.3	0.48	
4-Nitrotoluene	-	0 / 26	<	0.8	U	<	1	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	9.54	26 / 30	0.65	0.8	J	0.93	0.41		1.5	0.49		1.9	0.49		2.3	0.48		3.8	0.48	J	2.9	0.48	
MNX	0.15 J	1 / 18	<	0.8	U	<	2.1	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 30	<	0.8	U	<	0.41	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	43	33 / 34	2.4	0.8		1.7	0.21		3.3	0.49		3.2	0.49		2.9	0.48		4.3	0.48		6.2	0.48	
Tetryl	-	0 / 29	<	0.8	U	<	0.25	U	<	0.49	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID			NW020			NW020			NW020			NW020			NW020			NW020			NW020		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/15/2004			3/17/2003			3/19/2002			3/21/2001			3/14/2000			3/25/1999			6/16/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	2.3	24 / 34	1.4	0.2		<	0.18	U	1.2	0.38		0.63	0.8	J	0.77	0.8	J	0.793	0.8	J	<	1.00	U
1,3-Dinitrobenzene	-	0 / 33	<	0.2	U	<	0.18	U	<	0.25	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	53	34 / 34	6.8	0.2		11	1.8		13	1.6		19	1.6		25	30	J	34.9	4.0		22.3	1.00	
2,4-Dinitrotoluene	2.4	7 / 34	0.17	0.39	J	<	0.35	U	<	0.25	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	17.7	1 / 34	<	0.39	U	<	0.35	U	<	0.97	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	13	28 / 30	2.4	0.39		2.6	0.35		4.5	0.39		5.5	0.8		8.9	1		9.15	0.8	J	7.96	0.500	
2-Nitrotoluene	1.1	1 / 26	<	0.39	U	<	0.35	U	<	0.77	U	1.1	0.8		<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 26	<	0.39	U	<	0.35	U	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	10.8	27 / 27	2.2	0.39		3	0.35		3.1	0.66		4.2	0.8		6.4	1		6.26	0.8		5.85	1.00	
4-Nitrotoluene	-	0 / 26	<	0.62	U	<	0.56	U	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	9.54	26 / 30	2.3	0.49		2.1	0.44		2.8	1.1		2.3	1		3.6	0.8		3.8	0.8		4.25	0.500	
MNX	0.15 J	1 / 18	0.15	0.2	J		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 30	<	0.2	U	<	0.18	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	43	33 / 34	7.1	0.2		7.1	0.18		9.5	0.63		8.3	0.8		12	0.8		12.4	0.8		10.7	1.00	
Tetryl	-	0 / 29	<	0.39	U	<	0.35	U	<	1.0	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID			NW020			NW020			NW020			NW020			NW020			NW020			NW020		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			D1		
COLLECT DATE	Detection	Frequency	10/2/1997			12/9/1996			7/17/1994			6/14/1994			8/26/1992			5/31/1991			9/10/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	2.3	24 / 34	1.21	0.125		1.20	0.125		1.54	NRL		1.23	NRL		0.839	NRL		0.382	NRL		<	1.4	U
1,3-Dinitrobenzene	-	0 / 33	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U		NA	
2,4,6-Trinitrotoluene	53	34 / 34	22.8	0.29		30.0	0.29		23.0	NRL		25.0	NRL		25.5	NRL		10.1	NRL		53	NRL	
2,4-Dinitrotoluene	2.4	7 / 34	0.753	0.233		0.78	0.233		0.311	NRL		<	0.26	U	0.106	NRL		<	4	U	<	0.56	U
2,6-Dinitrotoluene	17.7	1 / 34	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	17.7	NRL		<	1.2	U
2-Amino-4,6-dinitrotoluene	13	28 / 30	10.4	0.173		13.0	0.173		12	NRL		<	0.954	U	10.5	NRL		<	9.9	U		NA	
2-Nitrotoluene	1.1	1 / 26	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	10.8	27 / 27	7.15	0.309		8.00	0.309			NA		10.8	NRL			NA			NA			NA	
4-Nitrotoluene	-	0 / 26	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	9.54	26 / 30	4.07	0.16		4.80	0.16		9.54	NRL		7.63	NRL		6.74	NRL		5.97	NRL			NA	
MNX	0.15 J	1 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 30	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	43	33 / 34	10.1	0.558		12.0	0.558		26.0	NRL		24.0	NRL		25.4	NRL		28	NRL		41.7	NRL	
Tetryl	-	0 / 29	<	0.253	U	<	0.253	U	<	1.18	U	<	12	U		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-EXPLOSIVES

FIELD ID			NW020			NW020			NW020		
METHOD	Maximum	Detection	99			99			99		
COLLECT DATE	Detection	Frequency	4/16/1985			3/15/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	2.3	24 / 34	2.3	NRL		1.2	NRL		<	0.1	U
1,3-Dinitrobenzene	-	0 / 33	<	0.1	U	<	0.1	U	<	0.1	U
2,4,6-Trinitrotoluene	53	34 / 34	44	NRL		32	NRL		13	NRL	
2,4-Dinitrotoluene	2.4	7 / 34	2.4	NRL		1.5	NRL		<	0.1	U
2,6-Dinitrotoluene	17.7	1 / 34	<	0.1	U	<	0.1	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	13	28 / 30		NA			NA			NA	
2-Nitrotoluene	1.1	1 / 26		NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	10.8	27 / 27		NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA	
HMX	9.54	26 / 30		NA			NA			NA	
MNX	0.15 J	1 / 18		NA			NA			NA	
Nitrobenzene	-	0 / 30		NA			NA			NA	
RDX	43	33 / 34	43	NRL		30	NRL		17	NRL	
Tetryl	-	0 / 29		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID			NW021					NW021					NW021					NW021				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/15/2020					6/10/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.5	8 / 34	<	U	0.087	0.21	0.22	<	U	0.094	0.22	0.24	<	U	0.19	0.38	0.96	<	U	0.031	0.1	0.15
1,3-Dinitrobenzene	-	0 / 33	<	U	0.038	0.1	0.11	<	U	0.041	0.11	0.12	<	U	0.085	0.19	0.38	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	27.4	18 / 34	<	U	0.047	0.1	0.11	<	U	0.05	0.11	0.12	<	U	0.15	0.38	0.38	0.078	J	0.051	0.1	0.15
2,4-Dinitrotoluene	2.5	8 / 34	<	U	0.028	0.083	0.1	<	U	0.031	0.09	0.11	<	U	0.08	0.19	0.38	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 34	<	U	0.042	0.083	0.1	<	U	0.045	0.09	0.11	<	U	0.062	0.19	0.19	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	9.5	28 / 30	1.5		0.053	0.1	0.11	2.2		0.057	0.11	0.12	2.4		0.049	0.12	0.19	3.3		0.03	0.1	0.15
2-Nitrotoluene	0.34 J	1 / 26	<	UJ	0.089	0.21	0.22	<	U	0.096	0.22	0.24	<	UJ	0.082	0.19	0.38	<	U	0.089	0.2	0.51
3-Nitrotoluene	-	0 / 26	<	UJ	0.2	0.42	0.42	<	U	0.22	0.45	0.45	<	UJ	0.19	0.38	0.38	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	6.2	25 / 26	0.95		0.06	0.12	0.16	1		0.065	0.13	0.17	1.2	J	0.055	0.12	0.19	1.5		0.051	0.1	0.15
4-Nitrotoluene	-	0 / 26	<	UJ	0.1	0.42	0.43	<	U	0.11	0.45	0.46	<	UJ	0.19	0.38	0.96	<	U	0.089	0.2	0.51
HMX	10.2	24 / 30	<	U	0.091	0.21	0.22	<	U	0.098	0.22	0.24	<	U	0.084	0.19	0.38	0.29		0.028	0.1	0.15
MNX	0.26 J	2 / 18	<	U	0.16	0.42	2.1	<	U	0.17	0.45	2.2	<	U	0.15	0.38	1.9	<	U	0.036	0.1	0.51
Nitrobenzene	0.64 J	1 / 30	<	U	0.095	0.21	0.22	<	U	0.1	0.22	0.24	<	U	0.087	0.19	0.38	<	U	0.051	0.1	0.15
RDX	30	32 / 34	0.13	J	0.053	0.21	0.22	<	U	0.058	0.22	0.24	<	U	0.15	0.38	0.38	0.21	J	0.036	0.1	0.15
Tetryl	4.7	1 / 29	<	U	0.033	0.1	0.11	<	U	0.036	0.11	0.12	<	U	0.076	0.19	0.23	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID			NW021					NW021					NW021					NW021			NW021	
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330			SW846 M83	
COLLECT DATE	Detection	Frequency	3/28/2017					8/5/2016					8/11/2015					8/14/2014			3/20/2013	
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	2.5	8 / 34	<	U	0.033	0.11	0.16	<	0.22	0.43	1.1	U	<	0.21	0.43	1.1	UJ	<	1	U	<	0.8
1,3-Dinitrobenzene	-	0 / 33	<	U	0.053	0.11	0.16	<	0.096	0.22	0.43	U	<	0.095	0.21	0.43	UJ	<	0.42	U	<	0.8
2,4,6-Trinitrotoluene	27.4	18 / 34	<	U	0.053	0.11	0.16	<	0.078	0.22	0.43	U	<	0.078	0.21	0.43	UJ	<	0.42	U	<	0.8
2,4-Dinitrotoluene	2.5	8 / 34	<	U	0.053	0.11	0.14	<	0.09	0.22	0.43	U	<	0.090	0.21	0.43	UJ	<	0.42	U	<	0.8
2,6-Dinitrotoluene	-	0 / 34	<	U	0.053	0.11	0.14	<	0.069	0.22	0.22	U	<	0.069	0.21	0.21	UJ	<	0.21	U	<	0.8
2-Amino-4,6-dinitrotoluene	9.5	28 / 30	3.5		0.032	0.11	0.16	4.3	0.055	0.13	0.22		2.3	0.054	0.13	0.21	J	5.5	0.21		6.5	0.8
2-Nitrotoluene	0.34 J	1 / 26	<	U	0.093	0.21	0.53	<	0.092	0.22	0.43	U	<	0.092	0.21	0.43	UJ	<	0.42	U	<	0.8
3-Nitrotoluene	-	0 / 26	<	U	0.06	0.21	0.53	<	0.09	0.22	0.43	U	<	0.090	0.21	0.43	UJ	<	0.42	U	<	0.8
4-Amino-2,6-dinitrotoluene	6.2	25 / 26	1.9		0.053	0.11	0.16	2	0.062	0.13	0.22		1.5	0.062	0.13	0.21	J	3.7	0.21		3.6	1.4
4-Nitrotoluene	-	0 / 26	<	U	0.093	0.21	0.53	<	0.22	0.43	1.1	U	<	0.21	0.43	1.1	UJ	<	1	U	<	0.8
HMX	10.2	24 / 30	0.39		0.038	0.11	0.16	<	0.094	0.22	0.43	U	<	0.094	0.21	0.43	U	0.79	0.42	J	1.3	0.8
MNX	0.26 J	2 / 18	<	U	0.03	0.11	0.53	<	0.39	0.39	2.2	U	<	0.38	0.38	2.1	UJ	<	2.1	U	<	0.8
Nitrobenzene	0.64 J	1 / 30	<	U	0.053	0.11	0.16	<	0.098	0.22	0.43	U	<	0.098	0.21	0.43	UJ	<	0.42	U	<	0.8
RDX	30	32 / 34	0.24		0.038	0.11	0.16	0.35	0.056	0.13	0.22		0.22	0.056	0.13	0.21	J	0.5	0.21	J	0.95	0.8
Tetryl	4.7	1 / 29	<	U	0.053	0.11	0.16	4.7	0.085	0.22	0.26		<	0.085	0.21	0.26	UJ	<	0.25	UJ	<	1.6

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID				NW021		
METHOD	Maximum	Detection	30	SW846 M8330		
COLLECT DATE	Detection	Frequency		3/6/2012		
			Qual	Result	RL	Qual
EXPLOSIVES (µg/L)						
1,3,5-Trinitrobenzene	2.5	8 / 34	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 33	U	<	0.8	U
2,4,6-Trinitrotoluene	27.4	18 / 34	U	<	0.8	U
2,4-Dinitrotoluene	2.5	8 / 34	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 34	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	9.5	28 / 30		5.9	0.8	
2-Nitrotoluene	0.34 J	1 / 26	U	<	0.8	U
3-Nitrotoluene	-	0 / 26	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	6.2	25 / 26		3	1.4	
4-Nitrotoluene	-	0 / 26	U	<	0.8	U
HMX	10.2	24 / 30		2	0.8	J
MNX	0.26 J	2 / 18	U	<	0.8	U
Nitrobenzene	0.64 J	1 / 30	U	<	0.8	U
RDX	30	32 / 34		1.3	0.8	J
Tetryl	4.7	1 / 29	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID			NW021			NW021			NW021			NW021			NW021			NW021			NW021		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/8/2011			3/9/2010			3/10/2009			3/10/2008			3/9/2007			3/14/2006			3/14/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	2.5	8 / 34	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 33	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	27.4	18 / 34	<	0.8	U	0.19	0.41	J	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	2.5	8 / 34	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 34	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	9.5	28 / 30	7.3	0.8		8.9	0.21		7.6	0.48		9.3	0.48		9.5	0.5		8.6	0.48		3.8	0.48	P
2-Nitrotoluene	0.34 J	1 / 26	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	6.2	25 / 26	3.2	0.8		3.4	0.21		4.2	0.48		6.2	0.48		4.6	0.5		6.2	0.48		3.5	0.48	
4-Nitrotoluene	-	0 / 26	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
HMX	10.2	24 / 30	1.3	0.8		1.5	0.41		3.1	0.48		2.1	0.48		2.1	0.5		2.9	0.48	J	2	0.48	
MNX	0.26 J	2 / 18	<	0.8	U	<	2.1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	0.26	0.48	J
Nitrobenzene	0.64 J	1 / 30	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
RDX	30	32 / 34	1.5	0.8		1.9	0.21		2.6	0.48		4.3	0.48		4.3	0.5		6.3	0.48		5.7	0.48	
Tetryl	4.7	1 / 29	<	0.8	U	<	0.25	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID			NW021			NW021			NW021			NW021			NW021			NW021			NW021		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/15/2004			3/17/2003			3/19/2002			3/21/2001			3/14/2000			3/25/1999			6/16/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	2.5	8 / 34	<	0.18	U	<	0.19	U	<	0.24	U	<	0.8	U	0.38	0.8	J	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 33	<	0.18	U	<	0.19	U	<	0.16	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	27.4	18 / 34	<	0.18	U	0.11	0.19	J	0.31	0.20		2.8	0.8		3.1	1.5		4.78	0.8		1.71	1.00	
2,4-Dinitrotoluene	2.5	8 / 34	<	0.35	U	<	0.36	U	<	0.16	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 34	<	0.35	U	<	0.36	U	<	0.62	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	9.5	28 / 30	4.6	0.35		1.3	0.36		1.1	0.25		1.7	0.8		1.9	1		4.6	0.8	J	1.80	0.500	U
2-Nitrotoluene	0.34 J	1 / 26	<	0.35	U	<	0.36	U	<	0.49	U	0.34	0.8	J	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 26	<	0.35	U	<	0.36	U	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	6.2	25 / 26	3.6	0.35		1.7	0.36		1.6	0.42		1.4	0.8		1.1	1		1.65	0.8		<	1.00	U
4-Nitrotoluene	-	0 / 26	<	0.56	U	<	0.58	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	10.2	24 / 30	2	0.44		1.5	0.46		1.9	0.68		2.2	1		2.7	0.8		3.02	0.8		2.91	0.500	
MNX	0.26 J	2 / 18	0.23	0.18			NA			NA			NA			NA			NA			NA	
Nitrobenzene	0.64 J	1 / 30	<	0.18	U	<	0.19	U	<	0.28	U	<	0.8	U	0.64	0.8	J	<	0.8	U	<	0.500	U
RDX	30	32 / 34	4.6	0.18		2	0.19		3.7	0.40		7.1	0.8		5	0.8		6.09	0.8		3.44	1.00	
Tetryl	4.7	1 / 29	<	0.35	U	<	0.36	U	<	0.66	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID			NW021			NW021			NW021			NW021			NW021			NW021			NW021		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			D1		
COLLECT DATE	Detection	Frequency	10/2/1997			12/9/1996			7/17/1994			6/14/1994			8/26/1992			6/2/1991			9/10/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	2.5	8 / 34	0.606	0.125		0.41	0.125		0.436	NRL		0.673	NRL		<	0.449	U	<	0.21	U	<	1.4	U
1,3-Dinitrobenzene	-	0 / 33	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U		NA	
2,4,6-Trinitrotoluene	27.4	18 / 34	3.21	0.29		3.8	0.29		3.09	NRL		3.04	NRL		3.82	NRL		1.6	NRL		27.4	NRL	
2,4-Dinitrotoluene	2.5	8 / 34	0.33	0.233		0.24	0.233		<	0.26	U	0.345	NRL		0.34	NRL		<	0.397	U	0.722	NRL	
2,6-Dinitrotoluene	-	0 / 34	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	3.18	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	9.5	28 / 30	3.28	0.173		<	0.173	U	4.25	NRL		3.71	NRL		6.87	NRL		<	4.21	U		NA	
2-Nitrotoluene	0.34 J	1 / 26	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	6.2	25 / 26	1.92	0.309		1.6	0.309			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	10.2	24 / 30	2.41	0.16		<	0.16	U	5.36	NRL		4.26	NRL		10.2	NRL		4.07	NRL			NA	
MNX	0.26 J	2 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	0.64 J	1 / 30	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	1.29	U		NA	
RDX	30	32 / 34	4.02	0.558		4.6	0.558		5.66	NRL		4.34	NRL		5.43	NRL		4.01	NRL		26	NRL	
Tetryl	4.7	1 / 29	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-EXPLOSIVES

FIELD ID			NW021			NW021			NW021		
METHOD	Maximum	Detection	99			99			99		
COLLECT DATE	Detection	Frequency	4/16/1985			3/15/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	2.5	8 / 34	2.5	NRL		0.9	NRL		0.6	NRL	
1,3-Dinitrobenzene	-	0 / 33	<	0.1	U	<	0.1	U	<	0.1	U
2,4,6-Trinitrotoluene	27.4	18 / 34	19	NRL		10	NRL		11	NRL	
2,4-Dinitrotoluene	2.5	8 / 34	2.5	NRL		1.3	NRL		0.5	NRL	
2,6-Dinitrotoluene	-	0 / 34	<	0.1	U	<	0.1	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	9.5	28 / 30		NA			NA			NA	
2-Nitrotoluene	0.34 J	1 / 26		NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	6.2	25 / 26		NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA	
HMX	10.2	24 / 30		NA			NA			NA	
MNX	0.26 J	2 / 18		NA			NA			NA	
Nitrobenzene	0.64 J	1 / 30		NA			NA			NA	
RDX	30	32 / 34	30	NRL		19	NRL		21	NRL	
Tetryl	4.7	1 / 29		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-EXPLOSIVES

FIELD ID			NW022					NW022					NW022					NW022				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	5/25/2021					6/15/2020					6/10/2019					3/19/2018				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 33	<	U	0.085	0.2	0.21	<	U	0.088	0.21	0.22	<	U	0.2	0.41	1	<	U	0.032	0.1	0.15
1,3-Dinitrobenzene	-	0 / 32	<	U	0.037	0.1	0.11	<	U	0.039	0.1	0.12	<	U	0.09	0.2	0.41	<	U	0.051	0.1	0.15
2,4,6-Trinitrotoluene	6.1	1 / 33	<	UJ	0.046	0.1	0.11	<	U	0.047	0.1	0.12	<	U	0.16	0.41	0.41	<	U	0.051	0.1	0.15
2,4-Dinitrotoluene	-	0 / 33	<	U	0.028	0.081	0.1	<	U	0.029	0.084	0.1	<	U	0.085	0.2	0.41	<	U	0.051	0.1	0.13
2,6-Dinitrotoluene	-	0 / 33	<	U	0.041	0.081	0.1	<	U	0.042	0.084	0.1	<	U	0.065	0.2	0.2	<	U	0.051	0.1	0.13
2-Amino-4,6-dinitrotoluene	9.4	2 / 31	<	UJ	0.052	0.1	0.11	<	U	0.053	0.1	0.12	<	U	0.051	0.12	0.2	<	U	0.031	0.1	0.15
2-Nitrotoluene	-	0 / 26	<	UJ	0.087	0.2	0.21	<	U	0.089	0.21	0.22	<	UJ	0.087	0.2	0.41	<	U	0.09	0.2	0.51
3-Nitrotoluene	-	0 / 26	<	UJ	0.2	0.41	0.41	<	U	0.2	0.42	0.42	<	UJ	0.2	0.41	0.41	<	U	0.058	0.2	0.51
4-Amino-2,6-dinitrotoluene	6.4	1 / 26	<	UJ	0.059	0.12	0.15	<	U	0.06	0.13	0.16	<	U	0.059	0.12	0.2	<	U	0.051	0.1	0.15
4-Nitrotoluene	-	0 / 26	<	UJ	0.1	0.41	0.42	<	U	0.1	0.42	0.43	<	UJ	0.2	0.41	1	<	U	0.09	0.2	0.51
HMX	1.8 J	1 / 31	<	UJ	0.089	0.2	0.21	<	U	0.092	0.21	0.22	<	U	0.089	0.2	0.41	<	U	0.029	0.1	0.15
MNX	-	0 / 18	<	U	0.16	0.41	2	<	U	0.16	0.42	2.1	<	U	0.16	0.41	2	<	U	0.037	0.1	0.51
Nitrobenzene	-	0 / 31	<	U	0.092	0.2	0.21	<	U	0.095	0.21	0.22	<	U	0.092	0.2	0.41	<	U	0.051	0.1	0.15
RDX	8.4	1 / 32	<	U	0.052	0.2	0.21	<	U	0.054	0.21	0.22	<	U	0.16	0.41	0.41	<	U	0.037	0.1	0.15
Tetryl	1.77	1 / 30	<	U	0.032	0.1	0.11	<	U	0.033	0.1	0.12	<	U	0.081	0.2	0.24	<	U	0.051	0.1	0.15

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-EXPLOSIVES

FIELD ID			NW022					NW022					NW022					NW022		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330		
COLLECT DATE	Detection	Frequency	3/28/2017					8/5/2016					8/11/2015					8/14/2014		
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 33	<	U	0.032	0.1	0.15	<	0.22	0.45	1.1	U	<	0.20	0.43	1.0	UJ	<	1	U
1,3-Dinitrobenzene	-	0 / 32	<	U	0.052	0.1	0.15	<	0.099	0.22	0.45	U	<	0.089	0.21	0.40	UJ	<	0.42	U
2,4,6-Trinitrotoluene	6.1	1 / 33	<	U	0.052	0.1	0.15	<	0.081	0.22	0.45	U	<	0.073	0.21	0.40	UJ	<	0.42	U
2,4-Dinitrotoluene	-	0 / 33	<	U	0.052	0.1	0.13	<	0.093	0.22	0.45	U	<	0.084	0.21	0.40	UJ	<	0.42	U
2,6-Dinitrotoluene	-	0 / 33	<	U	0.052	0.1	0.13	<	0.072	0.22	0.22	U	<	0.065	0.21	0.20	UJ	<	0.21	U
2-Amino-4,6-dinitrotoluene	9.4	2 / 31	<	U	0.031	0.1	0.15	<	0.057	0.13	0.22	U	<	0.051	0.12	0.20	UJ	<	0.21	U
2-Nitrotoluene	-	0 / 26	<	U	0.091	0.21	0.52	<	0.095	0.22	0.45	U	<	0.086	0.21	0.40	UJ	<	0.42	U
3-Nitrotoluene	-	0 / 26	<	U	0.059	0.21	0.52	<	0.093	0.22	0.45	U	<	0.084	0.21	0.40	UJ	<	0.42	U
4-Amino-2,6-dinitrotoluene	6.4	1 / 26	<	U	0.052	0.1	0.15	<	0.064	0.13	0.22	U	<	0.058	0.12	0.20	UJ	<	0.21	U
4-Nitrotoluene	-	0 / 26	<	U	0.091	0.21	0.52	<	0.22	0.45	1.1	U	<	0.20	0.43	1.0	UJ	<	1	U
HMX	1.8 J	1 / 31	<	U	0.037	0.1	0.15	<	0.098	0.22	0.45	U	<	0.088	0.21	0.40	UJ	<	0.42	U
MNX	-	0 / 18	<	U	0.029	0.1	0.52	<	0.4	0.4	2.2	U	<	0.36	0.36	2.0	UJ	<	2.1	U
Nitrobenzene	-	0 / 31	<	U	0.052	0.1	0.15	<	0.1	0.22	0.45	U	<	0.091	0.21	0.40	UJ	<	0.42	U
RDX	8.4	1 / 32	<	U	0.037	0.1	0.15	<	0.058	0.13	0.22	U	<	0.052	0.12	0.20	UJ	<	0.21	U
Tetryl	1.77	1 / 30	<	U	0.052	0.1	0.15	<	0.088	0.22	0.27	U	<	0.079	0.21	0.24	UJ	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-EXPLOSIVES

FIELD ID			NW022			NW022			NW022			NW022			NW022			NW022			NW022		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008			3/9/2007		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 33	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 32	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,4,6-Trinitrotoluene	6.1	1 / 33	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 33	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 33	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	9.4	2 / 31	<	0.8	U	<	0.8	U	<	0.8	U	0.066	0.2	J	<	0.48	U	<	0.48	U	<	0.49	U
2-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
3-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	6.4	1 / 26	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U
4-Nitrotoluene	-	0 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.49	U
HMX	1.8 J	1 / 31	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
MNX	-	0 / 18	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.49	U
Nitrobenzene	-	0 / 31	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.49	U
RDX	8.4	1 / 32	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.49	U
Tetryl	1.77	1 / 30	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-EXPLOSIVES

FIELD ID			NW022			NW022			NW022			NW022			NW022			NW022			NW022		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/14/2006			3/14/2005			3/15/2004			3/17/2003			3/19/2002			3/21/2001			3/14/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 33	<	0.48	U	<	0.48	U	<	0.19	U	<	0.16	U	<	0.42	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 32	<	0.48	U	<	0.48	U	<	0.19	U	<	0.16	U	<	0.28	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	6.1	1 / 33	6.1	0.48		<	0.48	U	<	0.19	U	<	0.16	U	<	0.35	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 33	<	0.48	U	<	0.48	U	<	0.36	U	<	0.31	U	<	0.28	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 33	<	0.48	U	<	0.48	U	<	0.36	U	<	0.31	U	<	1.1	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	9.4	2 / 31	9.4	0.48		<	0.48	U	<	0.36	U	<	0.31	U	<	0.44	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 26	<	0.48	U	<	0.48	U	<	0.36	U	<	0.31	U	<	0.86	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 26	<	0.48	U	<	0.48	U	<	0.36	U	<	0.31	U	<	0.54	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	6.4	1 / 26	6.4	0.48		<	0.48	U	<	0.36	U	<	0.31	U	<	0.74	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 26	<	0.48	U	<	0.48	U	<	0.58	U	<	0.5	U	<	1.8	U	<	0.8	U	<	1.1	U
HMX	1.8 J	1 / 31	1.8	0.48	J	<	0.48	U	<	0.46	U	<	0.39	U	<	1.2	U	<	1	U	<	0.8	U
MNX	-	0 / 18	<	0.48	U	<	0.48	U	<	0.19	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 31	<	0.48	U	<	0.48	U	<	0.19	U	<	0.16	U	<	0.49	U	<	0.8	U	<	0.8	U
RDX	8.4	1 / 32	8.4	0.48		<	0.48	U	<	0.19	U	<	0.16	U	<	0.70	U	<	0.8	U	<	0.8	U
Tetryl	1.77	1 / 30	<	0.48	U	<	0.48	U	<	0.36	U	<	0.31	U	<	1.2	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-EXPLOSIVES

FIELD ID			NW022			NW022			NW022			NW022			NW022			NW022			NW022		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW51			UW51			UW33			UW33			UW32		
COLLECT DATE	Detection	Frequency	3/25/1999			6/16/1998			10/2/1997			12/9/1996			7/17/1994			6/13/1994			8/26/1992		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 33	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U
1,3-Dinitrobenzene	-	0 / 32	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U
2,4,6-Trinitrotoluene	6.1	1 / 33	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U
2,4-Dinitrotoluene	-	0 / 33	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U
2,6-Dinitrotoluene	-	0 / 33	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U
2-Amino-4,6-dinitrotoluene	9.4	2 / 31	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U
2-Nitrotoluene	-	0 / 26	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA			NA			NA	
3-Nitrotoluene	-	0 / 26	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	6.4	1 / 26	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA			NA			NA	
4-Nitrotoluene	-	0 / 26	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA			NA			NA	
HMX	1.8 J	1 / 31	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U
MNX	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 31	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U
RDX	8.4	1 / 32	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U
Tetryl	1.77	1 / 30	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-EXPLOSIVES

FIELD ID			NW022			NW022			NW022			NW022		
METHOD	Maximum	Detection	UW33			UW25			D1			99		
COLLECT DATE	Detection	Frequency	7/25/1991			6/2/1991			9/10/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 33	<	0.425	U	<	0.21	U	<	1.4	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 32	<	0.549	U	<	0.458	U		NA		<	0.1	U
2,4,6-Trinitrotoluene	6.1	1 / 33	<	0.451	U	<	0.426	U	<	1.9	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 33	<	0.26	U	<	0.397	U	<	0.56	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 33	<	0.26	U	<	0.6	U	<	1.2	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	9.4	2 / 31	<	0.5	U	<	0.8	U		NA			NA	
2-Nitrotoluene	-	0 / 26		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 26		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	6.4	1 / 26		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 26		NA			NA			NA			NA	
HMX	1.8 J	1 / 31	<	0.563	U	<	5.3	U		NA			NA	
MNX	-	0 / 18		NA			NA			NA			NA	
Nitrobenzene	-	0 / 31	<	0.817	U	<	0.682	U		NA			NA	
RDX	8.4	1 / 32	<	0.412	U		NA		<	7	U	<	0.1	U
Tetryl	1.77	1 / 30	<	1.18	U	1.77	NRL			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-EXPLOSIVES

FIELD ID			NW030			NW030			NW030			NW030			NW030			NW030			NW030		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	0.739	1 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 22	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.13 J	1 / 21	**2017**			**in 2014, 2015, 2016, 2017**			<	0.8	U	<	0.8	U	0.13	0.8	J	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	0.29 J	4 / 21							<	0.8	U	0.19	0.8	J	0.22	0.8	J	0.29	0.41	J	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U
RDX	1.5	16 / 22							0.67	0.8	J	1	0.8	J	1.4	0.8		1.2	0.2		1.5	0.48	
Tetryl	-	0 / 20							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-EXPLOSIVES

FIELD ID			NW030			NW030			NW030			NW030			NW030			NW030			NW030		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/10/2008			3/19/2007			3/14/2006			3/14/2005			3/12/2004			3/17/2003			3/19/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.16	U	<	0.42	U
1,3-Dinitrobenzene	0.739	1 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.16	U	<	0.28	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.16	U	<	0.35	U
2,4-Dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	0.28	U
2,6-Dinitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.13 J	1 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	0.44	U
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	0.86	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	0.54	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	0.74	U
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.5	U	<	1.8	U
HMX	0.29 J	4 / 21	<	0.48	U	<	0.48	U	<	0.48	U	0.28	0.48	J	<	0.94	U	<	0.39	U	<	1.2	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U		NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.16	U	<	0.49	U
RDX	1.5	16 / 22	1.5	0.48		1.2	0.48		1	0.48		1.1	0.48		1.2	0.39		0.8	0.16		0.55	0.70	J
Tetryl	-	0 / 20	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.75	U	<	0.31	U	<	1.2	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-EXPLOSIVES

FIELD ID			NW030			NW030			NW030			NW030			NW030			NW030			NW030		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33			UW33		
COLLECT DATE	Detection	Frequency	3/21/2001			3/14/2000			6/14/1998			10/2/1997			2/17/1997			7/15/1994			6/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U
1,3-Dinitrobenzene	0.739	1 / 22	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U	0.739	NRL	
2,4,6-Trinitrotoluene	-	0 / 22	<	0.8	U	<	1.5	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	0.13 J	1 / 21	<	0.8	U	<	1	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	1.00	U	<	0.319	U	<	0.319	U		NA			NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	1.00	U	<	0.514	U	<	0.514	U		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.8	U	<	1	U	<	1.00	U	<	0.309	U	<	0.309	U		NA			NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	1.00	U	<	0.368	U	<	0.368	U		NA			NA	
HMX	0.29 J	4 / 21	<	1	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U
RDX	1.5	16 / 22	0.2	0.8	J	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	1.03	NRL		1.01	NRL	
Tetryl	-	0 / 20	<	0.8	U	<	1.3	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-EXPLOSIVES

FIELD ID			NW030			NW030			NW030		
METHOD	Maximum	Detection	UW32			UW25			99		
COLLECT DATE	Detection	Frequency	8/25/1992			5/31/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 22	<	0.449	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	0.739	1 / 22	<	0.611	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 22	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 22	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	0.13 J	1 / 21	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA	
HMX	0.29 J	4 / 21	<	1.21	U	<	5.3	U		NA	
MNX	-	0 / 10		NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.645	U	<	0.682	U		NA	
RDX	1.5	16 / 22	<	1.17	U	<	0.416	U	0.6	NRL	
Tetryl	-	0 / 20		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-EXPLOSIVES

FIELD ID			NW031			NW031			NW031			NW031			NW031			NW031			NW031		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	0.058 J	1 / 23	**2017**			**in 2014, 2015, 2016, 2017**			<	0.8	U	<	0.8	U	<	0.8	U	0.058	0.2	J	<	0.49	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.49	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U
HMX	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.49	U
Nitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
RDX	0.4	2 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
Tetryl	1.15	1 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-EXPLOSIVES

FIELD ID			NW031			NW031			NW031			NW031			NW031			NW031			NW031		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/10/2008			3/12/2007			3/14/2006			3/14/2005			3/12/2004			3/17/2003			3/19/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.47	U	<	0.16	U	<	0.34	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.47	U	<	0.16	U	<	0.23	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.47	U	<	0.16	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.23	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.89	U
2-Amino-4,6-dinitrotoluene	0.058 J	1 / 23	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.36	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.70	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.44	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.60	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.5	U	<	0.5	U	<	1.4	U
HMX	-	0 / 23	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	1.2	U	<	0.39	U	<	0.97	U
MNX	-	0 / 10	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.47	U		NA			NA	
Nitrobenzene	-	0 / 23	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.47	U	<	0.16	U	<	0.40	U
RDX	0.4	2 / 23	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.47	U	0.14	0.16	J	<	0.57	U
Tetryl	1.15	1 / 22	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.92	U	<	0.31	U	<	0.95	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-EXPLOSIVES

FIELD ID			NW031			NW031			NW031			NW031			NW031			NW031			NW031		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/21/2001			3/14/2000			3/25/1999			6/14/1998			10/2/1997			2/17/1997			7/15/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	0.058 J	1 / 23	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 23	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	0.4	2 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	1.15	1 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-EXPLOSIVES

FIELD ID			NW031			NW031			NW031			NW031			NW031		
METHOD	Maximum	Detection	UW33			UW32			UW33			UW25			99		
COLLECT DATE	Detection	Frequency	6/13/1994			8/25/1992			7/25/1991			6/2/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 24	<	0.425	U	<	0.449	U	<	0.425	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 24	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.451	U	<	0.635	U	<	0.451	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	0.058 J	1 / 23	<	0.244	U	<	0.158	U	<	0.5	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA	
HMX	-	0 / 23	<	0.563	U	<	1.21	U	<	0.563	U	<	5.3	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U		NA	
RDX	0.4	2 / 23	<	0.412	U	<	1.17	U	<	0.412	U		NA		0.4	NRL	
Tetryl	1.15	1 / 22	<	1.18	U		NA		<	1.18	U	1.15	NRL			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-EXPLOSIVES

FIELD ID			NW032			NW032			NW032			NW032			NW032			NW032			NW032			NW032		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009					
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
EXPLOSIVES (µg/L)																										
1,3,5-Trinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U			
1,3-Dinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
2,4,6-Trinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
2,4-Dinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
2,6-Dinitrotoluene	-	0 / 23	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U			
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2017**			**in 2014, 2015, 2016,**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U			
2-Nitrotoluene	-	0 / 18				**2017**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.48	U			
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U			
HMX	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.48	U			
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U			
RDX	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U			
Tetryl	-	0 / 21							<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U			

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-EXPLOSIVES

FIELD ID			NW032			NW032			NW032			NW032			NW032			NW032			NW032		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/10/2008			3/12/2007			3/14/2006			3/14/2005			3/12/2004			3/17/2003			3/18/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.2	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.2	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.2	U	<	0.20	U
2,4-Dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.16	U
2,6-Dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.25	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.49	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.42	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	1.3	U	<	0.62	U	<	1.0	U
HMX	-	0 / 22	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.98	U	<	0.49	U	<	0.68	U
MNX	-	0 / 10	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.4	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.2	U	<	0.28	U
RDX	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.2	U	<	0.40	U
Tetryl	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.78	U	<	0.39	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-EXPLOSIVES

FIELD ID			NW032			NW032			NW032			NW032			NW032			NW032			NW032		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/21/2001			3/14/2000			3/25/1999			6/14/1998			10/2/1997			2/17/1997			7/15/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 22	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 21	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-EXPLOSIVES

FIELD ID			NW032			NW032			NW032			NW032		
METHOD	Maximum	Detection	UW33			UW32			UW25			99		
COLLECT DATE	Detection	Frequency	6/13/1994			8/25/1992			6/2/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 23	<	0.425	U	<	0.449	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 23	<	0.549	U	<	0.611	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.451	U	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA	
HMX	-	0 / 22	<	0.563	U	<	1.21	U	<	5.3	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	-	0 / 23	<	0.412	U	<	1.17	U	<	0.416	U	<	0.1	U
Tetryl	-	0 / 21	<	1.18	U		NA		<	3.56	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW040-EXPLOSIVES

FIELD ID			NW040			NW040			NW040			NW040			NW040			NW040			NW040		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			None			None			3/14/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13																<	0.4	U	<	0.47	U
1,3-Dinitrobenzene	-	0 / 13																<	0.26	U	<	0.31	U
2,4,6-Trinitrotoluene	-	0 / 13																<	0.33	U	<	0.39	U
2,4-Dinitrotoluene	-	0 / 13																<	0.26	U	<	0.31	U
2,6-Dinitrotoluene	-	0 / 13	**Abandoned**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			<	1	U	<	1.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2008**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.41	U	<	0.49	U
2-Nitrotoluene	-	0 / 8																<	0.81	U	<	0.96	U
3-Nitrotoluene	-	0 / 8																<	0.51	U	<	0.60	U
4-Amino-2,6-dinitrotoluene	-	0 / 8																<	0.69	U	<	0.82	U
4-Nitrotoluene	-	0 / 8																<	1.6	U	<	2.0	U
HMX	-	0 / 12																<	1.1	U	<	1.3	U
MNX		0 / 0																	NA			NA	
Nitrobenzene	-	0 / 12																<	0.46	U	<	0.55	U
RDX	0.2	1 / 13																<	0.66	U	<	0.78	U
Tetryl	0.753	1 / 11																<	1.1	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW040-EXPLOSIVES

FIELD ID			NW040			NW040			NW040			NW040			NW040			NW040			NW040		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/13/2001			3/14/2000			3/23/1999			6/14/1998			10/3/1997			12/10/1996			7/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 13	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 8	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 12	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX		0 / 0		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	0.2	1 / 13	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	0.753	1 / 11	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW040-EXPLOSIVES

FIELD ID			NW040			NW040			NW040			NW040		
METHOD	Maximum	Detection	UW33			UW32			UW25			99		
COLLECT DATE	Detection	Frequency	6/10/1994			8/25/1992			5/30/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 13	<	0.425	U	<	0.449	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 13	<	0.549	U	<	0.611	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 13	<	0.451	U	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 13	<	0.26	U	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 13	<	0.26	U	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 8		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 8		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 8		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 8		NA			NA			NA			NA	
HMX	-	0 / 12	<	0.563	U	<	1.21	U	<	0.533	U		NA	
MNX		0 / 0		NA			NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	0.2	1 / 13	<	0.412	U	<	1.17	U	<	0.416	U	0.2	NRL	
Tetryl	0.753	1 / 11	<	1.18	U		NA		0.753	NRL			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW041-EXPLOSIVES

FIELD ID			NW041			NW041			NW041			NW041			NW041			NW041			NW041		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/13/2006			3/11/2005			3/12/2004			3/14/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16							<	0.48	U	<	0.5	U	<	0.38	U	<	0.29	U	<	0.40	U
1,3-Dinitrobenzene	-	0 / 16							<	0.48	U	<	0.5	U	<	0.38	U	<	0.19	U	<	0.27	U
2,4,6-Trinitrotoluene	-	0 / 16							<	0.48	U	<	0.5	U	<	0.38	U	<	0.24	U	<	0.33	U
2,4-Dinitrotoluene	-	0 / 16							<	0.48	U	<	0.5	U	<	0.74	U	<	0.19	U	<	0.27	U
2,6-Dinitrotoluene	-	0 / 16	**Abandoned**			**Not Sampled**			<	0.48	U	<	0.5	U	<	0.74	U	<	0.74	U	<	1.0	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	**2008**			**in 2007**			<	0.48	U	<	0.5	U	<	0.74	U	<	0.3	U	<	0.42	U
2-Nitrotoluene	-	0 / 11							<	0.48	U	<	0.5	U	<	0.74	U	<	0.59	U	<	0.82	U
3-Nitrotoluene	-	0 / 11							<	0.48	U	<	0.5	U	<	0.74	U	<	0.37	U	<	0.52	U
4-Amino-2,6-dinitrotoluene	-	0 / 11							<	0.48	U	<	0.5	U	<	0.74	U	<	0.5	U	<	0.70	U
4-Nitrotoluene	-	0 / 11							<	0.48	U	<	0.5	U	<	1.2	U	<	1.2	U	<	1.7	U
HMX	-	0 / 15							<	0.48	U	<	0.5	U	<	0.93	U	<	0.82	U	<	1.1	U
MNX	-	0 / 3							<	0.48	U	<	0.5	U	<	0.38	U		NA			NA	
Nitrobenzene	-	0 / 15							<	0.48	U	<	0.5	U	<	0.38	U	<	0.34	U	<	0.47	U
RDX	0.676	4 / 16							<	0.48	U	<	0.5	U	<	0.38	U	0.27	0.48	J	<	0.67	U
Tetryl	-	0 / 14							<	0.48	U	<	0.5	U	<	0.74	U	<	0.79	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW041-EXPLOSIVES

FIELD ID			NW041			NW041			NW041			NW041			NW041			NW041			NW041		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/13/2001			3/14/2000			3/23/1999			6/14/1998			10/3/1997			12/10/1996			7/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 16	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 11	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 11	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 11	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 11	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 15	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 3		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 15	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	0.676	4 / 16	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	0.62	NRL	
Tetryl	-	0 / 14	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW041-EXPLOSIVES

FIELD ID			NW041			NW041			NW041			NW041		
METHOD	Maximum	Detection	UW33			UW32			UW25			99		
COLLECT DATE	Detection	Frequency	6/10/1994			8/31/1992			5/30/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	-	0 / 16	<	0.425	U	<	0.449	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 16	<	0.549	U	<	0.611	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.451	U	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 16	<	0.26	U	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 16	<	0.26	U	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 11		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 11		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 11		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 11		NA			NA			NA			NA	
HMX	-	0 / 15	<	0.563	U	<	1.21	U	<	0.533	U		NA	
MNX	-	0 / 3		NA			NA			NA			NA	
Nitrobenzene	-	0 / 15	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	0.676	4 / 16	0.676	NRL		<	1.17	U	<	0.416	U	0.4	NRL	
Tetryl	-	0 / 14	<	1.18	U		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-EXPLOSIVES

FIELD ID			NW050					NW050					NW050			NW050			NW050		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None					6/10/2020					None			3/7/2013			3/1/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 23						<	U	0.088	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 23						<	U	0.039	0.1	0.11				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 23						<	U	0.047	0.1	0.11				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 23						<	U	0.029	0.084	0.1				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 23		**Not Sampled**				<	U	0.042	0.084	0.1	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 22		**in 2021**				<	U	0.053	0.1	0.11	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 18						<	U	0.089	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 18						<	U	0.2	0.42	0.42				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 18						<	U	0.06	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 18						<	U	0.1	0.42	0.43				<	0.8	U	<	0.8	U
HMX	1.3	2 / 22						<	U	0.091	0.21	0.22				<	0.8	U	<	0.8	U
MNX	-	0 / 11						<	U	0.16	0.42	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 22						<	U	0.095	0.21	0.22				<	0.8	U	<	0.8	U
RDX	2.3	4 / 24						<	U	0.054	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 21						<	U	0.033	0.1	0.11				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-EXPLOSIVES

FIELD ID			NW050			NW050			NW050			NW050			NW050			NW050			NW050		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/7/2011			3/11/2010			3/5/2009			3/11/2008			3/9/2007			3/13/2006			3/11/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	1.3	2 / 22	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
MNX	-	0 / 11	<	0.8	U	<	2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.41	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	2.3	4 / 24	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 21	<	0.8	U	<	0.24	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-EXPLOSIVES

FIELD ID			NW050			NW050			NW050			NW050			NW050			NW050			NW050		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/11/2004			3/17/2003			3/18/2002			3/20/2001			3/13/2000			3/23/1999			10/2/1997		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.31	U	<	0.22	U	<	0.46	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 23	<	0.31	U	<	0.22	U	<	0.31	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.31	U	<	0.22	U	<	0.39	U	<	0.8	U	<	1.5	U	<	0.8	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 23	<	0.6	U	<	0.42	U	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.233	U
2,6-Dinitrotoluene	-	0 / 23	<	0.6	U	<	0.42	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.6	U	<	0.42	U	<	0.48	U	<	0.8	U	<	1	U	<	0.8	U	<	0.173	U
2-Nitrotoluene	-	0 / 18	<	0.6	U	<	0.42	U	<	0.95	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.319	U
3-Nitrotoluene	-	0 / 18	<	0.6	U	<	0.42	U	<	0.60	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.6	U	<	0.42	U	<	0.81	U	<	0.8	U	<	1	U	<	0.8	U	<	0.309	U
4-Nitrotoluene	-	0 / 18	<	0.98	U	<	0.68	U	<	1.9	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.368	U
HMX	1.3	2 / 22	<	0.76	U	<	0.53	U	<	1.3	U	1.3	1		<	0.8	U	<	0.8	U	0.663	0.16	
MNX	-	0 / 11	<	0.31	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.31	U	<	0.22	U	<	0.54	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.231	U
RDX	2.3	4 / 24	<	0.31	U	<	0.22	U	<	0.77	U	2.3	0.8		<	0.8	U	<	0.8	U	1.89	0.558	
Tetryl	-	0 / 21	<	0.6	U	<	0.42	U	<	1.3	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-EXPLOSIVES

FIELD ID			NW050			NW050			NW050			NW050			NW050			NW050			NW050		
METHOD	Maximum	Detection	UW51			UW33			UW33			UW32			UW25			3S			99		
COLLECT DATE	Detection	Frequency	12/9/1996			7/16/1994			6/12/1994			8/31/1992			5/30/1991			9/11/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U		NA		<	0.1	U
1,3-Dinitrobenzene	-	0 / 23	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U		NA		<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U		NA		<	0.1	U
2,4-Dinitrotoluene	-	0 / 23	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U		NA		<	0.1	U
2,6-Dinitrotoluene	-	0 / 23	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U		NA		<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA	
2-Nitrotoluene	-	0 / 18	<	0.319	U		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18	<	0.514	U		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.309	U		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18	<	0.368	U		NA			NA			NA			NA			NA			NA	
HMX	1.3	2 / 22	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	5.3	U		NA			NA	
MNX	-	0 / 11		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U		NA			NA	
RDX	2.3	4 / 24	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	1.37	NRL		<	8.61	U	1.8	NRL	
Tetryl	-	0 / 21	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	0.631	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-EXPLOSIVES

FIELD ID			NW051					NW051					NW051			NW051			NW051		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None					6/10/2020					None			3/7/2013			3/1/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	0.146	1 / 25						<	U	0.088	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 25						<	U	0.038	0.1	0.11				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 25						<	U	0.047	0.1	0.11				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 25						<	U	0.029	0.083	0.1				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 25		**Not Sampled**				<	U	0.042	0.083	0.1	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 23		**in 2021**				<	U	0.053	0.1	0.11	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 19						<	U	0.089	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 19						<	U	0.2	0.42	0.42				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 19						<	U	0.06	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 19						<	U	0.1	0.42	0.43				<	0.8	U	<	0.8	U
HMX	5.53	17 / 23						<	U	0.091	0.21	0.22				0.21	0.8	J	0.42	0.8	J
MNX	-	0 / 11						<	U	0.16	0.42	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 23						<	U	0.095	0.21	0.22				<	0.8	U	<	0.8	U
RDX	42.2	15 / 27						<	U	0.054	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 22						<	U	0.033	0.1	0.11				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-EXPLOSIVES

FIELD ID			NW051			NW051			NW051			NW051			NW051			NW051			NW051		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/7/2011			3/11/2010			3/5/2009			3/11/2008			3/9/2007			3/13/2006			3/11/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.146	1 / 25	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 19	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 19	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 19	<	0.8	U	<	1	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
HMX	5.53	17 / 23	0.34	0.8	J	0.41	0.4		0.63	0.49		<	0.48	U	0.86	0.52		<	0.48	U	0.79	0.48	
MNX	-	0 / 11	<	0.8	U	<	2	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 23	<	0.8	U	<	0.4	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
RDX	42.2	15 / 27	<	0.8	U	<	0.2	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 22	<	0.8	U	<	0.24	U	<	0.49	U	<	0.48	U	<	0.52	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-EXPLOSIVES

FIELD ID			NW051			NW051			NW051			NW051			NW051			NW051			NW051		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/12/2004			3/17/2003			3/18/2002			3/20/2001			3/13/2000			3/23/1999			6/14/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.146	1 / 25	<	0.27	U	<	0.26	U	<	0.33	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 25	<	0.27	U	<	0.26	U	<	0.22	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.27	U	<	0.26	U	<	0.28	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 25	<	0.53	U	<	0.5	U	<	0.22	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 25	<	0.53	U	<	0.5	U	<	0.86	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.53	U	<	0.5	U	<	0.35	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 19	<	0.53	U	<	0.5	U	<	0.68	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 19	<	0.53	U	<	0.5	U	<	0.43	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 19	<	0.53	U	<	0.5	U	<	0.58	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 19	<	0.85	U	<	0.81	U	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	5.53	17 / 23	1.6	0.66		1.7	0.63		<	0.94	U	1.3	1		1.6	0.8		1.42	0.8		<	0.500	U
MNX	-	0 / 11	<	0.27	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.27	U	<	0.26	U	<	0.39	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	42.2	15 / 27	0.47	0.27		0.55	0.26		<	0.55	U	0.98	0.8		3.8	0.8		2.83	0.8		<	1.00	U
Tetryl	-	0 / 22	<	0.53	U	<	0.5	U	<	0.91	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-EXPLOSIVES

FIELD ID			NW051			NW051			NW051			NW051			NW051			NW051			NW051		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			3S		
COLLECT DATE	Detection	Frequency	10/2/1997			12/9/1996			7/16/1994			6/12/1994			8/31/1992			5/30/1991			9/12/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.146	1 / 25	0.146	0.125		<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U		NA	
1,3-Dinitrobenzene	-	0 / 25	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U		NA	
2,4,6-Trinitrotoluene	-	0 / 25	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U		NA	
2,4-Dinitrotoluene	-	0 / 25	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U		NA	
2,6-Dinitrotoluene	-	0 / 25	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U		NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 19	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 19	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 19	<	0.309	U	<	0.309	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 19	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	5.53	17 / 23	1.44	0.16		1.9	0.16		2.49	NRL		2.85	NRL		5.53	NRL		<	5.3	U		NA	
MNX	-	0 / 11		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	42.2	15 / 27	3.33	0.558		4.12	0.558		3.49	NRL		3.59	NRL		2.48	NRL		0.618	NRL		42.2	NRL	
Tetryl	-	0 / 22	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-EXPLOSIVES

FIELD ID			NW051			NW051			NW051		
METHOD	Maximum	Detection	99			99			99		
COLLECT DATE	Detection	Frequency	4/16/1985			3/15/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	0.146	1 / 25		NA		<	0.1	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 25		NA		<	0.1	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 25		NA		<	0.1	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 25		NA		<	0.1	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 25		NA		<	0.1	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 23		NA			NA			NA	
2-Nitrotoluene	-	0 / 19		NA			NA			NA	
3-Nitrotoluene	-	0 / 19		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 19		NA			NA			NA	
4-Nitrotoluene	-	0 / 19		NA			NA			NA	
HMX	5.53	17 / 23		NA			NA			NA	
MNX	-	0 / 11		NA			NA			NA	
Nitrobenzene	-	0 / 23		NA			NA			NA	
RDX	42.2	15 / 27	36	NRL		20	NRL		29	NRL	
Tetryl	-	0 / 22		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-EXPLOSIVES

FIELD ID			NW052					NW052					NW052			NW052			NW052		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None					6/10/2020					None			3/7/2013			3/11/2010		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 22						<	U	0.088	0.21	0.22				<	0.8	U	<	1	U
1,3-Dinitrobenzene	0.53	1 / 21						<	U	0.039	0.1	0.12				<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	1.48	1 / 22						<	U	0.047	0.1	0.12				<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 22						<	U	0.029	0.084	0.1				<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	-	0 / 22		**Not Sampled**				<	U	0.042	0.084	0.1	**Not Sampled**			<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 21		**in 2021**				<	U	0.053	0.1	0.12	**in 2014 through 2019**			<	0.8	U	<	0.2	U
2-Nitrotoluene	-	0 / 17						<	U	0.09	0.21	0.22				<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 17						<	U	0.2	0.42	0.42				<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 17						<	U	0.06	0.13	0.16				<	1.4	U	<	0.2	U
4-Nitrotoluene	-	0 / 17						<	U	0.1	0.42	0.43				<	0.8	U	<	1	U
HMX	-	0 / 21						<	U	0.092	0.21	0.22				<	0.8	U	<	0.4	U
MNX	-	0 / 9						<	U	0.16	0.42	2.1				<	0.8	U	<	2	U
Nitrobenzene	-	0 / 21						<	U	0.095	0.21	0.22				<	0.8	U	<	0.4	U
RDX	-	0 / 23						<	U	0.054	0.21	0.22				<	0.8	U	<	0.2	U
Tetryl	-	0 / 20						<	U	0.033	0.1	0.12				<	1.6	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-EXPLOSIVES

FIELD ID			NW052			NW052			NW052			NW052			NW052			NW052			NW052		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/5/2009			3/11/2008			3/9/2007			3/13/2006			3/11/2005			3/11/2004			3/17/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U
1,3-Dinitrobenzene	0.53	1 / 21	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U
2,4,6-Trinitrotoluene	1.48	1 / 22	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U
2,4-Dinitrotoluene	-	0 / 22	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U
2,6-Dinitrotoluene	-	0 / 22	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U
2-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U
3-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U
4-Nitrotoluene	-	0 / 17	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.73	U	<	0.63	U
HMX	-	0 / 21	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.57	U	<	0.49	U
MNX	-	0 / 9	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.23	U		NA	
Nitrobenzene	-	0 / 21	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U
RDX	-	0 / 23	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.23	U	<	0.2	U
Tetryl	-	0 / 20	<	0.49	U	<	0.49	U	<	0.58	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.39	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-EXPLOSIVES

FIELD ID			NW052			NW052			NW052			NW052			NW052			NW052			NW052		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/18/2002			3/20/2001			3/13/2000			3/23/1999			6/16/1998			10/2/1997			12/9/1996		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.36	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U
1,3-Dinitrobenzene	0.53	1 / 21	<	0.24	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U
2,4,6-Trinitrotoluene	1.48	1 / 22	<	0.30	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 22	<	0.24	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U
2,6-Dinitrotoluene	-	0 / 22	<	0.93	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.38	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U
2-Nitrotoluene	-	0 / 17	<	0.74	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U
3-Nitrotoluene	-	0 / 17	<	0.46	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.63	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U
4-Nitrotoluene	-	0 / 17	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U
HMX	-	0 / 21	<	1.0	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U
MNX	-	0 / 9		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U
RDX	-	0 / 23	<	0.60	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U
Tetryl	-	0 / 20	<	0.99	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-EXPLOSIVES

FIELD ID			NW052			NW052			NW052			NW052			NW052			NW052		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW25			3S			99		
COLLECT DATE	Detection	Frequency	7/16/1994			6/11/1994			8/31/1992			6/3/1991			9/10/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0 / 22	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U		NA		<	0.1	U
1,3-Dinitrobenzene	0.53	1 / 21	0.53	NRL		<	0.549	U		NA		<	0.458	U		NA		<	0.1	U
2,4,6-Trinitrotoluene	1.48	1 / 22	<	0.451	U	<	0.451	U	<	0.635	U	1.48	NRL			NA		<	0.1	U
2,4-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U		NA		<	0.1	U
2,6-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U		NA		<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA	
HMX	-	0 / 21	<	0.563	U	<	0.563	U	<	1.21	U	<	5.3	U		NA			NA	
MNX	-	0 / 9		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U		NA			NA	
RDX	-	0 / 23	<	0.412	U	<	0.412	U	<	1.17	U	<	0.416	U	<	8.61	U	<	0.1	U
Tetryl	-	0 / 20	<	1.18	U	<	1.18	U		NA		<	1.33	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-EXPLOSIVES

FIELD ID			NW060					NW060					NW060			NW060			NW060		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/10/2020					None			3/7/2013			3/2/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 21	<	U	0.083	0.2	0.21	<	U	0.088	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 21	<	U	0.036	0.099	0.11	<	U	0.039	0.1	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 21	<	U	0.045	0.099	0.11	<	U	0.047	0.1	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 21	<	U	0.027	0.079	0.1	<	U	0.029	0.084	0.1				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 21	<	U	0.04	0.079	0.1	<	U	0.042	0.084	0.1	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	U	0.05	0.099	0.11	<	U	0.053	0.1	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 16	<	U	0.085	0.2	0.21	<	U	0.09	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 16	<	U	0.19	0.4	0.4	<	U	0.2	0.42	0.42				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	U	0.057	0.12	0.15	<	U	0.06	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 16	<	U	0.099	0.4	0.41	<	U	0.1	0.42	0.43				<	0.8	U	<	0.8	U
HMX	-	0 / 20	<	U	0.087	0.2	0.21	<	U	0.092	0.21	0.22				<	0.8	U	<	0.8	U
MNX	-	0 / 8	<	U	0.15	0.4	2	<	U	0.16	0.42	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 20	<	U	0.09	0.2	0.21	<	U	0.095	0.21	0.22				<	0.8	U	<	0.8	U
RDX	-	0 / 21	<	U	0.051	0.2	0.21	<	U	0.054	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 19	<	U	0.031	0.099	0.11	<	U	0.033	0.1	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-EXPLOSIVES

FIELD ID			NW060			NW060			NW060			NW060			NW060			NW060			NW060		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/10/2010			3/6/2009			3/6/2008			None			None			None		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U									
1,3-Dinitrobenzene	-	0 / 21	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
2,4,6-Trinitrotoluene	-	0 / 21	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
2,4-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
2,6-Dinitrotoluene	-	0 / 21	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**		
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U	**Well Dry**			**Well Dry**			**Well Dry**		
2-Nitrotoluene	-	0 / 16	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
3-Nitrotoluene	-	0 / 16	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U									
4-Nitrotoluene	-	0 / 16	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U									
HMX	-	0 / 20	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
MNX	-	0 / 8	<	0.8	U	<	2	U	<	0.48	U	<	0.47	U									
Nitrobenzene	-	0 / 20	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U									
RDX	-	0 / 21	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U									
Tetryl	-	0 / 19	<	0.8	U	<	0.24	U	<	0.48	U	<	0.47	U									

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-EXPLOSIVES

FIELD ID			NW060			NW060			NW060			NW060			NW060			NW060			NW060		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	None			3/14/2003			3/18/2002			3/20/2001			3/10/2000			3/23/1999			6/14/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21				<	0.3	U	<	0.46	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 21				<	0.2	U	<	0.31	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 21				<	0.25	U	<	0.38	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 21				<	0.2	U	<	0.31	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 21	**No 2004 Sample**			<	0.79	U	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	**Well Dry**			<	0.32	U	<	0.48	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 16				<	0.62	U	<	0.94	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 16				<	0.39	U	<	0.59	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 16				<	0.53	U	<	0.81	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 16				<	1.3	U	<	1.9	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 20				<	0.86	U	<	1.3	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 8					NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20				<	0.35	U	<	0.54	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 21				<	0.51	U	<	0.77	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 19				<	0.84	U	<	1.3	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-EXPLOSIVES

FIELD ID			NW060			NW060			NW060			NW060			NW060			NW060			NW060		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			99		
COLLECT DATE	Detection	Frequency	10/2/1997			12/9/1996			7/15/1994			6/12/1994			8/22/1992			5/30/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 21	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 21	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 21	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 21	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 21	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 20	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 16	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 16	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 16	<	0.309	U	<	0.309	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 16	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	-	0 / 20	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	0.533	U		NA	
MNX	-	0 / 8		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 20	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	-	0 / 21	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	0.416	U	<	0.1	U
Tetryl	-	0 / 19	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-EXPLOSIVES

FIELD ID			NW061					NW061					NW061			NW061			NW061		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/10/2020					None			3/12/2013			3/2/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 25	<	U	0.082	0.19	0.2	<	U	0.088	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	0.753	1 / 25	<	U	0.036	0.097	0.11	<	U	0.039	0.1	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 25	<	U	0.044	0.097	0.11	<	U	0.047	0.1	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 25	<	U	0.027	0.078	0.1	<	U	0.029	0.084	0.1				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 25	<	U	0.039	0.078	0.1	<	U	0.042	0.084	0.1	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.049	0.097	0.11	<	U	0.053	0.1	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	U	0.083	0.19	0.2	<	U	0.09	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	U	0.19	0.39	0.39	<	U	0.2	0.42	0.42				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.056	0.12	0.15	<	U	0.06	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 20	<	U	0.097	0.39	0.4	<	U	0.1	0.42	0.43				<	0.8	U	<	0.8	U
HMX	-	0 / 24	<	U	0.085	0.19	0.2	<	U	0.092	0.21	0.22				<	0.8	U	<	0.8	U
MNX	-	0 / 12	<	U	0.15	0.39	1.9	<	U	0.16	0.42	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 24	<	U	0.088	0.19	0.2	<	U	0.095	0.21	0.22				<	0.8	U	<	0.8	U
RDX	0.4	2 / 25	<	U	0.05	0.19	0.2	<	U	0.054	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 23	<	U	0.031	0.097	0.11	<	U	0.033	0.1	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-EXPLOSIVES

FIELD ID			NW061			NW061			NW061			NW061			NW061			NW061			NW061		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/11/2010			3/6/2009			3/6/2008			3/8/2007			3/13/2006			3/14/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	0.753	1 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
HMX	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
RDX	0.4	2 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 23	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.55	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-EXPLOSIVES

FIELD ID			NW061			NW061			NW061			NW061			NW061			NW061			NW061		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/11/2004			3/14/2003			3/18/2002			3/20/2001			3/10/2000			3/23/1999			6/14/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.16	U	<	0.24	U	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	0.753	1 / 25	<	0.16	U	<	0.16	U	<	0.29	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.16	U	<	0.2	U	<	0.37	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 25	<	0.31	U	<	0.16	U	<	0.29	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 25	<	0.31	U	<	0.62	U	<	1.1	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.31	U	<	0.25	U	<	0.46	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.31	U	<	0.49	U	<	0.90	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.31	U	<	0.31	U	<	0.57	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.31	U	<	0.42	U	<	0.77	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 20	<	0.5	U	<	1	U	<	1.8	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 24	<	0.39	U	<	0.68	U	<	1.2	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 12	<	0.16	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.16	U	<	0.28	U	<	0.51	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	0.4	2 / 25	<	0.16	U	0.28	0.4	J	<	0.73	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 23	<	0.31	U	<	0.66	U	<	1.2	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-EXPLOSIVES

FIELD ID			NW061			NW061			NW061			NW061			NW061			NW061			NW061		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			99		
COLLECT DATE	Detection	Frequency	10/2/1997			12/9/1996			7/15/1994			6/12/1994			8/22/1992			5/30/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U	<	0.1	U
1,3-Dinitrobenzene	0.753	1 / 25	<	0.989	U	<	0.989	U	<	0.549	U	0.753	NRL		<	0.611	U	<	0.458	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 25	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 25	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	-	0 / 24	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	5.3	U		NA	
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U		NA	
RDX	0.4	2 / 25	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	4.2	U	0.4	NRL	
Tetryl	-	0 / 23	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	0.631	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-EXPLOSIVES

FIELD ID			NW062					NW062					NW062			NW062			NW062		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/10/2020					None			3/7/2013			3/2/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 25	<	U	0.08	0.19	0.2	<	U	0.09	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	0.564	1 / 25	<	U	0.035	0.095	0.1	<	U	0.039	0.11	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 25	<	U	0.043	0.095	0.1	<	U	0.048	0.11	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 25	<	U	0.026	0.076	0.1	<	U	0.029	0.086	0.11				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 25	<	U	0.038	0.076	0.1	<	U	0.043	0.086	0.11	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	U	0.048	0.095	0.1	<	U	0.054	0.11	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	UJ	0.081	0.19	0.2	<	U	0.091	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	UJ	0.19	0.38	0.38	<	U	0.21	0.43	0.43				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.055	0.11	0.14	<	U	0.062	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	0.13 J	1 / 20	<	U	0.095	0.38	0.39	0.13	J	0.11	0.43	0.44				<	0.8	U	<	0.8	U
HMX	-	0 / 24	<	U	0.083	0.19	0.2	<	U	0.094	0.21	0.22				<	0.8	UJ	<	0.8	U
MNX	-	0 / 12	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 24	<	U	0.087	0.19	0.2	<	U	0.097	0.21	0.22				<	0.8	U	<	0.8	U
RDX	0.43 J	1 / 25	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	1.34	1 / 23	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-EXPLOSIVES

FIELD ID			NW062			NW062			NW062			NW062			NW062			NW062			NW062		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2011			3/11/2010			3/6/2009			3/7/2008			3/9/2007			3/13/2006			3/14/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	0.564	1 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	0.13 J	1 / 20	<	0.8	U	<	0.99	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
HMX	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	UJ	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 24	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
RDX	0.43 J	1 / 25	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U
Tetryl	1.34	1 / 23	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-EXPLOSIVES

FIELD ID			NW062			NW062			NW062			NW062			NW062			NW062			NW062		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/11/2004			3/14/2003			3/18/2002			3/20/2001			3/10/2000			3/23/1999			6/14/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.27	U	<	0.43	U	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	0.564	1 / 25	<	0.27	U	<	0.29	U	<	0.27	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.27	U	<	0.36	U	<	0.33	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 25	<	0.53	U	<	0.29	U	<	0.27	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 25	<	0.53	U	<	1.1	U	<	1.0	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.53	U	<	0.45	U	<	0.42	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.53	U	<	0.87	U	<	0.82	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.53	U	<	0.55	U	<	1.7	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.53	U	<	0.75	U	<	0.70	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	0.13 J	1 / 20	<	0.85	U	<	1.8	U	<	0.52	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 24	<	0.66	U	<	1.2	U	<	1.1	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 12	<	0.27	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.27	U	<	0.5	U	<	0.47	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	0.43 J	1 / 25	<	0.27	U	0.43	0.71	J	<	0.67	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	1.34	1 / 23	<	0.53	U	<	1.2	U	<	1.1	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-EXPLOSIVES

FIELD ID			NW062			NW062			NW062			NW062			NW062			NW062			NW062		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			99		
COLLECT DATE	Detection	Frequency	10/2/1997			12/9/1996			7/15/1994			6/12/1994			8/22/1992			5/30/1991			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 25	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	2.1	U	<	0.1	U
1,3-Dinitrobenzene	0.564	1 / 25	<	0.989	U	<	0.989	U	0.564	NRL		<	0.549	U	<	0.611	U	<	4.6	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 25	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 25	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 25	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 24	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	0.13 J	1 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	-	0 / 24	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	5.3	U		NA	
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 24	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	6.8	U		NA	
RDX	0.43 J	1 / 25	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	4.2	U	<	0.1	U
Tetryl	1.34	1 / 23	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		1.34	NRL			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-EXPLOSIVES

FIELD ID			NW070					NW070					NW070			NW070			NW070		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/9/2020					None			3/6/2013			2/29/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 28	<	U	0.08	0.19	0.2	<	U	0.089	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 28	<	U	0.035	0.095	0.11	<	U	0.039	0.11	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 28	<	U	0.043	0.095	0.11	<	U	0.048	0.11	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 28	<	U	0.026	0.076	0.1	<	U	0.029	0.085	0.11				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 28	<	U	0.038	0.076	0.1	<	U	0.043	0.085	0.11	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	0.24 J	1 / 24	<	U	0.048	0.095	0.11	0.24	J	0.054	0.11	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	U	0.082	0.19	0.2	<	UJ	0.091	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	U	0.19	0.38	0.38	<	UJ	0.21	0.42	0.42				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.055	0.11	0.14	<	UJ	0.061	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 20	<	U	0.095	0.38	0.39	<	UJ	0.11	0.42	0.43				<	0.8	U	<	0.8	U
HMX	-	0 / 27	<	U	0.084	0.19	0.2	<	U	0.093	0.21	0.22				<	0.8	U	<	0.8	U
MNX	-	0 / 12	<	U	0.15	0.38	1.9	<	U	0.16	0.42	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 27	<	U	0.087	0.19	0.2	<	U	0.096	0.21	0.22				<	0.8	U	<	0.8	U
RDX	1.4	1 / 28	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	-	0 / 25	<	U	0.03	0.095	0.11	<	U	0.034	0.11	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-EXPLOSIVES

FIELD ID			NW070			NW070			NW070			NW070			NW070			NW070			NW070		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/1/2011			3/9/2010			3/4/2009			3/5/2008			3/8/2007			3/10/2006			3/10/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 28	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 28	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 28	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.24 J	1 / 24	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
HMX	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 27	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
RDX	1.4	1 / 28	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 25	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-EXPLOSIVES

FIELD ID			NW070			NW070			NW070			NW070			NW070			NW070			NW070		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/11/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000			3/18/1999			6/13/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 28	<	0.17	U	<	0.31	U	<	0.34	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 28	<	0.17	U	<	0.21	U	<	0.23	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.17	U	<	0.26	U	<	0.28	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 28	<	0.33	U	<	0.21	U	<	0.23	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 28	<	0.33	U	<	0.81	U	<	0.88	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	0.24 J	1 / 24	<	0.33	U	<	0.33	U	<	0.35	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.33	U	<	0.64	U	<	0.69	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.33	U	<	0.4	U	<	0.44	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.33	U	<	0.55	U	<	0.60	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 20	<	0.53	U	<	1.3	U	<	1.4	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 27	<	0.41	U	<	0.88	U	<	0.96	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 12	<	0.17	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.17	U	<	0.36	U	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	1.4	1 / 28	<	0.17	U	<	0.52	U	<	0.57	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 25	<	0.33	U	<	0.86	U	<	0.94	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-EXPLOSIVES

FIELD ID			NW070			NW070			NW070			NW070			NW070			NW070			NW070		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW25			UW14		
COLLECT DATE	Detection	Frequency	10/2/1997			2/18/1997			7/12/1994			6/9/1994			8/31/1992			5/31/1991			10/16/1990		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 28	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U	<	0.626	U
1,3-Dinitrobenzene	-	0 / 28	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U	<	0.519	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U	<	0.588	U
2,4-Dinitrotoluene	-	0 / 28	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.612	U
2,6-Dinitrotoluene	-	0 / 28	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	1.15	U
2-Amino-4,6-dinitrotoluene	0.24 J	1 / 24	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA	
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	-	0 / 27	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	5.3	U	<	1.65	U
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 27	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U	<	1.07	U
RDX	1.4	1 / 28	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	0.416	U	<	2.11	U
Tetryl	-	0 / 25	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	0.631	U	<	0.556	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-EXPLOSIVES

FIELD ID			NW070			NW070			NW070		
METHOD	Maximum	Detection	UW14			UW01			99		
COLLECT DATE	Detection	Frequency	4/24/1990			5/15/1989			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 28	<	0.626	U	<	0.56	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 28	<	0.519	U	<	0.61	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 28	<	0.588	U	<	0.78	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 28	<	0.612	U	<	0.6	U	<	0.1	U
2,6-Dinitrotoluene	-	0 / 28	<	1.15	U	<	0.55	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	0.24 J	1 / 24		NA			NA			NA	
2-Nitrotoluene	-	0 / 20		NA			NA			NA	
3-Nitrotoluene	-	0 / 20		NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20		NA			NA			NA	
4-Nitrotoluene	-	0 / 20		NA			NA			NA	
HMX	-	0 / 27	<	1.65	U	<	1.3	U		NA	
MNX	-	0 / 12		NA			NA			NA	
Nitrobenzene	-	0 / 27	<	1.07	U	<	1.13	U		NA	
RDX	1.4	1 / 28	<	2.11	U	1.4	NRL		<	0.1	U
Tetryl	-	0 / 25	<	0.556	U		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-EXPLOSIVES

FIELD ID			NW071					NW071					NW071			NW071			NW071		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	5/19/2021					6/9/2020					None			3/6/2013			2/29/2012		
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																					
1,3,5-Trinitrobenzene	-	0 / 30	<	U	0.08	0.19	0.2	<	U	0.09	0.21	0.22				<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 30	<	U	0.035	0.095	0.1	<	U	0.039	0.11	0.12				<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 30	<	U	0.043	0.095	0.1	<	U	0.048	0.11	0.12				<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 30	<	U	0.026	0.076	0.1	<	U	0.029	0.085	0.11				<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	2.28	1 / 30	<	U	0.038	0.076	0.1	<	U	0.043	0.085	0.11	**Not Sampled**			<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	U	0.048	0.095	0.1	<	UJ	0.054	0.11	0.12	**in 2014 through 2019**			<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	U	0.082	0.19	0.2	<	UJ	0.091	0.21	0.22				<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0 / 20	<	U	0.19	0.38	0.38	<	UJ	0.21	0.43	0.43				<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	U	0.055	0.11	0.14	<	UJ	0.062	0.13	0.16				<	1.4	U	<	1.4	U
4-Nitrotoluene	-	0 / 20	<	U	0.095	0.38	0.39	<	UJ	0.11	0.43	0.44				<	0.8	U	<	0.8	U
HMX	-	0 / 28	<	U	0.084	0.19	0.2	<	U	0.094	0.21	0.22				<	0.8	U	<	0.8	U
MNX	-	0 / 12	<	U	0.15	0.38	1.9	<	U	0.16	0.43	2.1				<	0.8	U	<	0.8	U
Nitrobenzene	-	0 / 28	<	U	0.087	0.19	0.2	<	U	0.097	0.21	0.22				<	0.8	U	<	0.8	U
RDX	2.6	4 / 29	<	U	0.049	0.19	0.2	<	U	0.055	0.21	0.22				<	0.8	U	<	0.8	U
Tetryl	0.849	1 / 26	<	U	0.03	0.095	0.1	<	U	0.034	0.11	0.12				<	1.6	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-EXPLOSIVES

FIELD ID			NW071			NW071			NW071			NW071			NW071			NW071			NW071		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/1/2011			3/9/2010			3/5/2009			3/5/2008			3/8/2007			3/10/2006			3/10/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 30	<	0.8	U	<	1	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 30	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 30	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 30	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	2.28	1 / 30	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 20	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 20	<	0.8	U	<	1	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
HMX	-	0 / 28	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
MNX	-	0 / 12	<	0.8	U	<	2	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 28	<	0.8	U	<	0.41	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
RDX	2.6	4 / 29	<	0.8	U	<	0.2	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U
Tetryl	0.849	1 / 26	<	0.8	U	<	0.24	U	<	0.49	U	<	0.47	U	<	0.51	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-EXPLOSIVES

FIELD ID			NW071			NW071			NW071			NW071			NW071			NW071			NW071		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/11/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000			3/18/1999			6/13/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 30	<	0.21	U	<	0.24	U	<	0.35	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 30	<	0.21	U	<	0.16	U	<	0.23	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 30	<	0.21	U	<	0.2	U	<	0.29	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 30	<	0.4	U	<	0.16	U	<	0.23	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	2.28	1 / 30	<	0.4	U	<	0.62	U	<	0.90	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.4	U	<	0.25	U	<	0.36	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 20	<	0.4	U	<	0.49	U	<	0.71	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 20	<	0.4	U	<	0.31	U	<	0.45	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.4	U	<	0.42	U	<	0.61	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 20	<	0.65	U	<	1	U	<	1.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 28	<	0.51	U	<	0.68	U	<	0.99	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U
MNX	-	0 / 12	<	0.21	U		NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.21	U	<	0.28	U	<	0.41	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U
RDX	2.6	4 / 29	<	0.21	U	0.2	0.4	J	<	0.58	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	0.849	1 / 26	<	0.4	U	<	0.66	U	<	0.96	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-EXPLOSIVES

FIELD ID			NW071			NW071			NW071			NW071			NW071			NW071			NW071		
METHOD	Maximum	Detection	UW51			UW51			UW33			UW33			UW32			UW33			UW25		
COLLECT DATE	Detection	Frequency	10/2/1997			2/18/1997			7/12/1994			6/9/1994			8/31/1992			7/24/1991			6/4/1991		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 30	<	0.125	U	<	0.125	U	<	0.425	U	<	0.425	U	<	0.449	U	<	0.425	U	<	0.21	U
1,3-Dinitrobenzene	-	0 / 30	<	0.989	U	<	0.989	U	<	0.549	U	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U
2,4,6-Trinitrotoluene	-	0 / 30	<	0.29	U	<	0.29	U	<	0.451	U	<	0.451	U	<	0.635	U	<	0.451	U	<	0.426	U
2,4-Dinitrotoluene	-	0 / 30	<	0.233	U	<	0.233	U	<	0.26	U	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U
2,6-Dinitrotoluene	2.28	1 / 30	<	0.2	U	<	0.2	U	<	0.26	U	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.173	U	<	0.173	U	<	0.244	U	<	0.244	U	<	0.158	U	<	0.5	U	<	0.8	U
2-Nitrotoluene	-	0 / 20	<	0.319	U	<	0.319	U		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20	<	0.514	U	<	0.514	U		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20	<	0.309	U	<	0.309	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20	<	0.368	U	<	0.368	U		NA			NA			NA			NA			NA	
HMX	-	0 / 28	<	0.16	U	<	0.16	U	<	0.563	U	<	0.563	U	<	1.21	U	<	0.563	U	<	5.3	U
MNX	-	0 / 12		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.231	U	<	0.231	U	<	0.817	U	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U
RDX	2.6	4 / 29	<	0.558	U	<	0.558	U	<	0.412	U	<	0.412	U	<	1.17	U	<	0.412	U		NA	
Tetryl	0.849	1 / 26	<	0.253	U	<	0.253	U	<	1.18	U	<	1.18	U		NA		<	1.18	U	0.849	NRL	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-EXPLOSIVES

FIELD ID			NW071			NW071			NW071			NW071			NW071		
METHOD	Maximum	Detection	UW14			UW14			UW01			99			99		
COLLECT DATE	Detection	Frequency	10/16/1990			4/24/1990			5/15/1989			3/15/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0 / 30	<	0.626	U	<	0.626	U	<	0.56	U	<	0.1	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 30	<	0.519	U	<	0.519	U	<	0.61	U	<	0.1	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 30	<	0.588	U	<	0.588	U	<	0.78	U	<	0.1	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 30	<	0.612	U	<	0.612	U	<	0.6	U	<	0.1	U	<	0.1	U
2,6-Dinitrotoluene	2.28	1 / 30	<	1.15	U	<	1.15	U	2.28	NRL		<	0.1	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 25		NA			NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 20		NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 20		NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 20		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 20		NA			NA			NA			NA			NA	
HMX	-	0 / 28	<	1.65	U	<	1.65	U	<	1.3	U		NA			NA	
MNX	-	0 / 12		NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	1.07	U	<	1.07	U	<	1.13	U		NA			NA	
RDX	2.6	4 / 29	<	2.11	U	<	2.11	U	1.43	NRL		1	NRL		2.6	NRL	
Tetryl	0.849	1 / 26	<	0.556	U	<	0.556	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-EXPLOSIVES

FIELD ID			NW080					NW080					NW080					NW080				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None					6/8/2020					None					8/4/2016				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 29						<	U	0.088	0.21	0.22						<	0.21	0.43	1.1	U
1,3-Dinitrobenzene	-	0 / 29						<	U	0.039	0.1	0.12						<	0.095	0.21	0.43	U
2,4,6-Trinitrotoluene	-	0 / 29						<	U	0.047	0.1	0.12						<	0.077	0.21	0.43	U
2,4-Dinitrotoluene	-	0 / 29						<	U	0.029	0.084	0.1						<	0.089	0.21	0.43	U
2,6-Dinitrotoluene	0.7	1 / 29		**Not Sampled**				<	U	0.042	0.084	0.1		**Not Sampled**				<	0.069	0.21	0.21	U
2-Amino-4,6-dinitrotoluene	-	0 / 25		**in 2021**				<	UJ	0.053	0.1	0.12		**in 2017, 2018, 2019**				<	0.054	0.13	0.21	U
2-Nitrotoluene	-	0 / 21						<	UJ	0.09	0.21	0.22						<	0.091	0.21	0.43	U
3-Nitrotoluene	-	0 / 21						<	UJ	0.2	0.42	0.42						<	0.089	0.21	0.43	U
4-Amino-2,6-dinitrotoluene	-	0 / 21						<	UJ	0.06	0.13	0.16						<	0.061	0.13	0.21	U
4-Nitrotoluene	-	0 / 21						<	UJ	0.1	0.42	0.43						<	0.21	0.43	1.1	U
HMX	3.38	9 / 28						<	U	0.092	0.21	0.22						<	0.093	0.21	0.43	U
MNX	-	0 / 13						<	U	0.16	0.42	2.1						<	0.38	0.38	2.1	U
Nitrobenzene	-	0 / 28						<	U	0.095	0.21	0.22						<	0.097	0.21	0.43	U
RDX	12.4	12 / 29						<	U	0.054	0.21	0.22						<	0.056	0.13	0.21	U
Tetryl	-	0 / 26						<	U	0.033	0.1	0.12						<	0.085	0.21	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-EXPLOSIVES

FIELD ID			NW080					NW080			NW080			NW080			NW080			NW080		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/11/2015					None			3/6/2013			3/2/2012			3/3/2011			3/15/2010		
			Result	DL	LOD	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	-	0 / 29	<	0.41	0.41	1.0	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
1,3-Dinitrobenzene	-	0 / 29	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 29	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 29	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	0.7	1 / 29	<	0.20	0.20	0.20	UJ	**No 2014 Sample**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.12	0.12	0.20	UJ	**Well Dry**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Nitrotoluene	-	0 / 21	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 21	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.12	0.12	0.20	UJ				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U
4-Nitrotoluene	-	0 / 21	<	0.41	0.41	1.0	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
HMX	3.38	9 / 28	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
MNX	-	0 / 13	<	0.36	0.36	2.0	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 28	<	0.20	0.20	0.41	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	12.4	12 / 29	<	0.12	0.12	0.20	UJ				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
Tetryl	-	0 / 26	<	0.20	0.20	0.24	UJ				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-EXPLOSIVES

FIELD ID			NW080			NW080			NW080			NW080			NW080			NW080			NW080		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2009			3/6/2008			3/8/2007			3/10/2006			3/11/2005			3/11/2004			3/13/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 29	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.26	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 29	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.26	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 29	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.26	U	<	0.2	U
2,4-Dinitrotoluene	-	0 / 29	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.16	U
2,6-Dinitrotoluene	0.7	1 / 29	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.25	U
2-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.49	U
3-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.42	U
4-Nitrotoluene	-	0 / 21	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.82	U	<	1	U
HMX	3.38	9 / 28	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	0.5	0.53	J	0.39	0.64	J	0.35	0.68	J
MNX	-	0 / 13	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.26	U		NA	
Nitrobenzene	-	0 / 28	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.26	U	<	0.28	U
RDX	12.4	12 / 29	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	0.75	0.53		0.71	0.26		0.77	0.4	
Tetryl	-	0 / 26	<	0.48	U	<	0.48	U	<	0.5	U	<	0.49	U	<	0.53	U	<	0.51	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-EXPLOSIVES

FIELD ID			NW080			NW080			NW080			NW080			NW080			NW080			NW080		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/15/2002			3/16/2001			3/9/2000			3/19/1999			6/15/1998			10/1/1997			12/10/1996		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 29	<	0.60	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 29	<	0.40	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 29	<	0.50	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 29	<	0.40	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U
2,6-Dinitrotoluene	0.7	1 / 29	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.63	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U
2-Nitrotoluene	-	0 / 21	<	1.2	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U
3-Nitrotoluene	-	0 / 21	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 21	<	1.1	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U
4-Nitrotoluene	-	0 / 21	<	2.5	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U
HMX	3.38	9 / 28	<	1.7	U	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	1.12	0.16		<	0.16	U
MNX	-	0 / 13		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.70	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U
RDX	12.4	12 / 29	<	1.0	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	2.81	0.558		<	0.558	U
Tetryl	-	0 / 26	<	1.7	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-EXPLOSIVES

FIELD ID			NW080			NW080			NW080			NW080			NW080			NW080			NW080		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	7/16/1994			6/11/1994			9/1/1992			5/31/1991			10/16/1990			4/25/1990			5/15/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 29	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U	<	0.626	U	<	0.626	U	<	0.56	U
1,3-Dinitrobenzene	-	0 / 29	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U	<	0.519	U	<	0.519	U	<	0.61	U
2,4,6-Trinitrotoluene	-	0 / 29	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U	<	0.588	U	<	0.588	U	<	0.78	U
2,4-Dinitrotoluene	-	0 / 29	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.612	U	<	0.612	U	<	0.6	U
2,6-Dinitrotoluene	0.7	1 / 29	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	1.15	U	<	1.15	U	0.7	NRL	
2-Amino-4,6-dinitrotoluene	-	0 / 25	<	0.244	U	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 21		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 21		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 21		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 21		NA			NA			NA			NA			NA			NA			NA	
HMX	3.38	9 / 28	0.732	NRL		0.987	NRL		3.38	NRL		1.15	NRL		<	1.65	U	<	1.65	U	1.72	NRL	
MNX	-	0 / 13		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 28	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U	<	1.07	U	<	1.07	U	<	1.13	U
RDX	12.4	12 / 29	1.88	NRL		2.36	NRL		3.99	NRL		5.31	NRL		3.85	NRL		5.46	NRL		3.58	NRL	
Tetryl	-	0 / 26	<	1.18	U	<	1.18	U		NA		<	0.631	U	<	0.556	U	<	0.556	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-EXPLOSIVES

FIELD ID			NW080			NW080		
METHOD	Maximum	Detection	3S			99		
COLLECT DATE	Detection	Frequency	9/10/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 29		NA		<	0.1	U
1,3-Dinitrobenzene	-	0 / 29		NA		<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 29		NA		<	0.1	U
2,4-Dinitrotoluene	-	0 / 29		NA		<	0.1	U
2,6-Dinitrotoluene	0.7	1 / 29		NA		<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 25		NA			NA	
2-Nitrotoluene	-	0 / 21		NA			NA	
3-Nitrotoluene	-	0 / 21		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 21		NA			NA	
4-Nitrotoluene	-	0 / 21		NA			NA	
HMX	3.38	9 / 28		NA			NA	
MNX	-	0 / 13		NA			NA	
Nitrobenzene	-	0 / 28		NA			NA	
RDX	12.4	12 / 29	12.4	NRL			NA	
Tetryl	-	0 / 26		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-EXPLOSIVES

FIELD ID			NW081R					NW081R					NW081R					NW081R				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None					6/8/2020					None					8/4/2016				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.928	2 / 31						<	U	0.093	0.22	0.23						<	0.21	0.43	1.1	U
1,3-Dinitrobenzene	-	0 / 31						<	U	0.041	0.11	0.12						<	0.095	0.21	0.43	U
2,4,6-Trinitrotoluene	-	0 / 31						<	U	0.05	0.11	0.12						<	0.077	0.21	0.43	U
2,4-Dinitrotoluene	-	0 / 31						<	U	0.03	0.089	0.11						<	0.090	0.21	0.43	U
2,6-Dinitrotoluene	1.51	1 / 31		**Not Sampled**				<	U	0.045	0.089	0.11		**Not Sampled**				<	0.069	0.21	0.21	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 26		**in 2021**				<	UJ	0.056	0.11	0.12		**in 2017, 2018, 2019**				<	0.054	0.13	0.21	U
2-Nitrotoluene	-	0 / 22						<	UJ	0.095	0.22	0.23						<	0.091	0.21	0.43	U
3-Nitrotoluene	-	0 / 22						<	UJ	0.22	0.44	0.44						<	0.089	0.21	0.43	U
4-Amino-2,6-dinitrotoluene	-	0 / 24						<	UJ	0.064	0.13	0.17						<	0.062	0.13	0.21	U
4-Nitrotoluene	-	0 / 22						<	UJ	0.11	0.44	0.46						<	0.21	0.43	1.1	U
HMX	6.87	26 / 29						<	U	0.097	0.22	0.23						<	0.094	0.21	0.43	U
MNX	0.12 J	1 / 14						<	U	0.17	0.44	2.2						<	0.38	0.38	2.1	U
Nitrobenzene	-	0 / 29						<	U	0.1	0.22	0.23						<	0.097	0.21	0.43	U
RDX	70.7	31 / 33						<	U	0.057	0.22	0.23						<	0.056	0.13	0.21	U
Tetryl	-	0 / 27						<	U	0.035	0.11	0.12						<	0.085	0.21	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-EXPLOSIVES

FIELD ID			NW081R					NW081R			NW081R			NW081R			NW081			NW081		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/11/2015					8/12/2014			3/6/2013			4/16/2012			3/3/2011			3/15/2010		
			Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	0.928	2 / 31	<	0.41	0.41	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
1,3-Dinitrobenzene	-	0 / 31	<	0.20	0.20	0.41	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 31	<	0.20	0.20	0.41	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 31	<	0.20	0.20	0.41	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	1.51	1 / 31	<	0.20	0.20	0.20	UJ	<	0.21	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 26	<	0.12	0.12	0.20	UJ	<	0.21	UJ	<	0.8	U	<	0.8	U	<	0.8	U	0.14	0.2	J
2-Nitrotoluene	-	0 / 22	<	0.20	0.20	0.41	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 22	<	0.20	0.20	0.41	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.12	0.20	0.20	UJ	<	0.21	U	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U
4-Nitrotoluene	-	0 / 22	<	0.41	0.12	1.0	UJ	<	1	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1	U
HMX	6.87	26 / 29	<	0.20	0.20	0.41	UJ	0.54	0.42		1.7	0.8		1.9	0.8		2.2	0.8		2.7	0.4	
MNX	0.12 J	1 / 14	<	0.36	0.36	2.0	UJ	<	2.1	U	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 29	<	0.20	0.20	0.41	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	70.7	31 / 33	0.16	0.16	0.12	0.20	J	0.24	0.21		0.95	0.8		1.6	0.8	J	2.3	0.8		2	0.2	
Tetryl	-	0 / 27	<	0.080	0.20	0.24	UJ	<	0.25	UJ	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-EXPLOSIVES

FIELD ID			NW081			NW081			NW081			NW081			NW081			NW081			NW081		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2009			3/6/2008			3/8/2007			3/10/2006			3/11/2005			3/11/2004			3/13/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.928	2 / 31	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.24	U
1,3-Dinitrobenzene	-	0 / 31	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 31	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U
2,4-Dinitrotoluene	-	0 / 31	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.17	U
2,6-Dinitrotoluene	1.51	1 / 31	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 26	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.25	U
2-Nitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.49	U
3-Nitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.42	U
4-Nitrotoluene	-	0 / 22	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.5	U	<	1	U
HMX	6.87	26 / 29	3.3	0.48		3.2	0.48		3.1	0.49		3	0.48		3	0.48		3.1	0.39		3.4	0.68	
MNX	0.12 J	1 / 14	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	0.12	0.16	J		NA	
Nitrobenzene	-	0 / 29	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.28	U
RDX	70.7	31 / 33	3.1	0.48		3.1	0.48		3.4	0.49		3.5	0.48		3.9	0.48		3.4	0.16		3.2	0.4	
Tetryl	-	0 / 27	<	0.48	U	<	0.48	U	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-EXPLOSIVES

FIELD ID			NW081			NW081			NW081			NW081			NW081			NW081			NW081		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/15/2002			3/16/2001			3/9/2000			3/19/1999			6/15/1998			10/1/1997			12/10/1996		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.928	2 / 31	<	0.38	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 31	<	0.26	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 31	<	0.32	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 31	<	0.26	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U
2,6-Dinitrotoluene	1.51	1 / 31	<	0.99	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 26	<	0.40	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U
2-Nitrotoluene	-	0 / 22	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U
3-Nitrotoluene	-	0 / 22	<	0.50	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.67	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U
4-Nitrotoluene	-	0 / 22	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U
HMX	6.87	26 / 29	4.0	1.1		4.1	1		4.8	0.8		4.41	0.8		4.29	0.500	J*	3.43	0.16		4.9	0.16	
MNX	0.12 J	1 / 14		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 29	<	0.45	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U
RDX	70.7	31 / 33	5.0	0.64		5.8	0.8		5.4	0.8		6.32	0.8		6.58	1.00		6.11	0.558		9.4	0.558	
Tetryl	-	0 / 27	<	1.1	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-EXPLOSIVES

FIELD ID			NW081			NW081			NW081			NW081			NW081			NW081			NW081		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	7/16/1994			6/11/1994			9/1/1992			6/3/1991			10/16/1990			4/25/1990			5/15/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.928	2 / 31	<	0.425	U	<	0.425	U	<	0.449	U	<	0.21	U	0.928	NRL		0.863	NRL		<	0.56	U
1,3-Dinitrobenzene	-	0 / 31	<	0.549	U	<	0.549	U	<	0.611	U	<	0.458	U	<	0.519	U	<	0.519	U	<	0.61	U
2,4,6-Trinitrotoluene	-	0 / 31	<	0.451	U	<	0.451	U	<	0.635	U	<	0.426	U	<	0.588	U	<	0.588	U	<	0.78	U
2,4-Dinitrotoluene	-	0 / 31	<	0.26	U	<	0.26	U	<	0.064	U	<	0.397	U	<	0.612	U	<	0.612	U	<	0.6	U
2,6-Dinitrotoluene	1.51	1 / 31	<	0.26	U	<	0.26	U	<	0.074	U	<	0.6	U	<	1.15	U	<	1.15	U	1.51	NRL	
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 26	<	0.954	U	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24	<	0.704	U	<	0.704	U		NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
HMX	6.87	26 / 29	6.62	NRL		6.87	NRL		6.38	NRL		4.34	NRL		5.65	NRL		5.71	NRL		4.34	NRL	
MNX	0.12 J	1 / 14		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 29	<	0.817	U	<	0.817	U	<	0.645	U	<	0.682	U	<	1.07	U	<	1.07	U	<	1.13	U
RDX	70.7	31 / 33	17	NRL		17	NRL		18.8	NRL		20.7	NRL		17	NRL		17.7	NRL		5.37	NRL	
Tetryl	-	0 / 27	<	1.18	U	<	1.18	U		NA		<	0.77	U	<	0.556	U	<	0.556	U		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-EXPLOSIVES

FIELD ID			NW081			NW081			NW081			NW081		
METHOD	Maximum	Detection	3S			99			99			99		
COLLECT DATE	Detection	Frequency	9/10/1985			4/16/1985			3/15/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	0.928	2 / 31		NA			NA		<	0.1	U	<	0.1	U
1,3-Dinitrobenzene	-	0 / 31		NA			NA		<	0.1	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 31		NA			NA		<	0.1	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 31		NA			NA		<	0.1	U	<	0.1	U
2,6-Dinitrotoluene	1.51	1 / 31		NA			NA		<	0.1	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	0.14 J	1 / 26		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 22		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 22		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 24		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 22		NA			NA			NA			NA	
HMX	6.87	26 / 29		NA			NA			NA			NA	
MNX	0.12 J	1 / 14		NA			NA			NA			NA	
Nitrobenzene	-	0 / 29		NA			NA			NA			NA	
RDX	70.7	31 / 33	70.7	NRL		53	NRL		48	NRL		54	NRL	
Tetryl	-	0 / 27		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-EXPLOSIVES

FIELD ID			NW082R					NW082R					NW082R					NW082R				
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330					SW846 M8330					SW846 M8330				
COLLECT DATE	Detection	Frequency	None					6/8/2020					None					8/4/2016				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	1.31	2 / 32						<	U	0.09	0.21	0.22						<	0.21	0.43	1.1	U
1,3-Dinitrobenzene	0.547	1 / 32						<	U	0.039	0.11	0.12						<	0.094	0.21	0.43	U
2,4,6-Trinitrotoluene	-	0 / 32						<	U	0.048	0.11	0.12						<	0.077	0.21	0.43	U
2,4-Dinitrotoluene	-	0 / 32						<	U	0.029	0.085	0.11						<	0.089	0.21	0.43	U
2,6-Dinitrotoluene	1.1	1 / 32		**Not Sampled**				<	U	0.043	0.085	0.11		**Not Sampled**				<	0.069	0.21	0.21	U
2-Amino-4,6-dinitrotoluene	-	0 / 27		**in 2021**				<	UJ	0.054	0.11	0.12		**in 2017, 2018, 2019**				<	0.054	0.13	0.21	U
2-Nitrotoluene	-	0 / 22						<	UJ	0.091	0.21	0.22						<	0.091	0.21	0.43	U
3-Nitrotoluene	-	0 / 22						<	UJ	0.21	0.43	0.43						<	0.089	0.21	0.43	U
4-Amino-2,6-dinitrotoluene	-	0 / 22						<	UJ	0.062	0.13	0.16						<	0.061	0.13	0.21	U
4-Nitrotoluene	-	0 / 22						<	UJ	0.11	0.43	0.44						<	0.21	0.43	1.1	U
HMX	2.27	24 / 30						<	U	0.093	0.21	0.22						<	0.093	0.21	0.43	U
MNX	0.11 J	1 / 14						<	U	0.16	0.43	2.1						<	0.38	0.38	2.1	U
Nitrobenzene	-	0 / 30						<	U	0.097	0.21	0.22						<	0.097	0.21	0.43	U
RDX	20	23 / 32						<	U	0.055	0.21	0.22						<	0.056	0.13	0.21	U
Tetryl	0.949	1 / 28						<	U	0.034	0.11	0.12						<	0.084	0.21	0.26	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-EXPLOSIVES

FIELD ID			NW082R					NW082R			NW082R			NW082R			NW082			NW082		
METHOD	Maximum	Detection	SW846 M8330					SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	8/11/2015					8/12/2014			3/6/2013			4/16/2012			3/3/2011			3/15/2010		
			Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																						
1,3,5-Trinitrobenzene	1.31	2 / 32	<	0.41	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U
1,3-Dinitrobenzene	0.547	1 / 32	<	0.20	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.20	0.21	0.42	UJ	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,4-Dinitrotoluene	-	0 / 32	<	0.20	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
2,6-Dinitrotoluene	1.1	1 / 32	<	0.20	0.21	0.21	U	<	0.21	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.12	0.13	0.21	UJ	<	0.21	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U
2-Nitrotoluene	-	0 / 22	<	0.20	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
3-Nitrotoluene	-	0 / 22	<	0.20	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.12	0.13	0.21	UJ	<	0.21	U	<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U
4-Nitrotoluene	-	0 / 22	<	0.41	0.42	1.0	U	<	1	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.99	U
HMX	2.27	24 / 30	<	0.20	0.21	0.42	U	<	0.42	J	0.81	0.8	J	0.89	0.8		1.2	0.8		1.2	0.4	
MNX	0.11 J	1 / 14	<	0.38	0.38	2.1	U	<	2.1	U	<	0.8	U	<	0.8	U	<	0.8	U	<	2	U
Nitrobenzene	-	0 / 30	<	0.20	0.21	0.42	U	<	0.42	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U
RDX	20	23 / 32	<	0.16	0.13	0.21	U	<	0.21	U	<	0.8	U	<	0.8	U	1.4	0.8		0.47	0.2	
Tetryl	0.949	1 / 28	<	0.20	0.21	0.25	U	<	0.25	U	<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-EXPLOSIVES

FIELD ID			NW082			NW082			NW082			NW082			NW082			NW082			NW082		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2009			3/6/2008			3/8/2007			3/10/2006			3/11/2005			3/11/2004			3/13/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	1.31	2 / 32	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.25	U	<	0.24	U
1,3-Dinitrobenzene	0.547	1 / 32	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.25	U	<	0.16	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.25	U	<	0.2	U
2,4-Dinitrotoluene	-	0 / 32	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.16	U
2,6-Dinitrotoluene	1.1	1 / 32	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.62	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.25	U
2-Nitrotoluene	-	0 / 22	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 22	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.31	U
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.42	U
4-Nitrotoluene	-	0 / 22	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.79	U	<	1	U
HMX	2.27	24 / 30	1.5	0.48		2.1	0.47		1.6	0.49		1.5	0.48		1.3	0.51		1.7	0.62		1.5	0.68	
MNX	0.11 J	1 / 14	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	0.11	0.25	J		NA	
Nitrobenzene	-	0 / 30	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.25	U	<	0.28	U
RDX	20	23 / 32	0.7	0.48		1.5	0.47		0.73	0.49		0.81	0.48		0.75	0.51		1.3	0.25		0.87	0.4	
Tetryl	0.949	1 / 28	<	0.48	U	<	0.47	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.49	U	<	0.66	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-EXPLOSIVES

FIELD ID			NW082			NW082			NW082			NW082			NW082			NW082			NW082		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/15/2002			3/16/2001			3/9/2000			3/19/1999			6/15/1998			10/1/1997			12/10/1996		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	1.31	2 / 32	<	0.38	U	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U
1,3-Dinitrobenzene	0.547	1 / 32	<	0.25	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.32	U	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 32	<	0.25	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U
2,6-Dinitrotoluene	1.1	1 / 32	<	0.98	U	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.40	U	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U
2-Nitrotoluene	-	0 / 22	<	0.78	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U
3-Nitrotoluene	-	0 / 22	<	0.49	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 22	<	0.67	U	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U
4-Nitrotoluene	-	0 / 22	<	1.6	U	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U
HMX	2.27	24 / 30	1.6	1.1		1.6	1		1.60	0.8		1.90	0.8		1.11	0.500	J*	1.69	0.16		1.7	0.16	
MNX	0.11 J	1 / 14		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 30	<	0.44	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U
RDX	20	23 / 32	1.5	0.63		1.2	0.8		1.1	0.8		1.62	0.8		<	1.00	U	2.29	0.558		<	0.558	U
Tetryl	0.949	1 / 28	<	1.0	U	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-EXPLOSIVES

FIELD ID			NW082			NW082			NW082			NW082			NW082			NW082			NW082		
METHOD	Maximum	Detection	UW33			UW33			UW32			UW33			UW25			UW14			UW14		
COLLECT DATE	Detection	Frequency	7/16/1994			6/11/1994			9/1/1992			7/24/1991			6/4/1991			10/16/1990			4/25/1990		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	1.31	2 / 32	<	0.425	U	<	0.425	U	<	0.449	U	<	0.425	U	<	0.21	U	0.984	NRL		1.31	NRL	
1,3-Dinitrobenzene	0.547	1 / 32	0.547	NRL		<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U	<	0.519	U	<	0.519	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.451	U	<	0.451	U	<	0.635	U	<	0.451	U	<	0.426	U	<	0.588	U	<	0.588	U
2,4-Dinitrotoluene	-	0 / 32	<	0.26	U	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U	<	0.612	U	<	0.612	U
2,6-Dinitrotoluene	1.1	1 / 32	<	0.26	U	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U	<	1.15	U	<	1.15	U
2-Amino-4,6-dinitrotoluene	-	0 / 27	<	0.244	U	<	0.244	U	<	0.158	U	<	0.5	U	<	0.8	U	<	NA			NA	
2-Nitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 22		NA			NA			NA			NA			NA			NA			NA	
HMX	2.27	24 / 30	2.14	NRL		1.81	NRL		1.59	NRL		<	0.563	U	1.79	NRL		<	1.65	U	2.27	NRL	
MNX	0.11 J	1 / 14		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 30	<	0.817	U	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U	<	1.07	U	<	1.07	U
RDX	20	23 / 32	3.79	NRL		2.48	NRL		2.86	NRL		4.99	NRL			NA		<	2.11	U	3.94	NRL	
Tetryl	0.949	1 / 28	<	1.18	U	<	1.18	U		NA		<	1.18	U	0.949	NRL		<	0.556	U	<	0.556	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-EXPLOSIVES

FIELD ID			NW082			NW082			NW082			NW082		
METHOD	Maximum	Detection	UW01			3S			99			99		
COLLECT DATE	Detection	Frequency	5/15/1989			9/10/1985			3/15/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)														
1,3,5-Trinitrobenzene	1.31	2 / 32	<	0.56	U		NA		<	0.1	U	<	0.1	U
1,3-Dinitrobenzene	0.547	1 / 32	<	0.61	U		NA		<	0.1	U	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 32	<	0.78	U		NA		<	0.1	U	<	0.1	U
2,4-Dinitrotoluene	-	0 / 32	<	0.6	U		NA		<	0.1	U	<	0.1	U
2,6-Dinitrotoluene	1.1	1 / 32	1.1	NRL			NA		<	0.1	U	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 27		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 22		NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 22		NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 22		NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 22		NA			NA			NA			NA	
HMX	2.27	24 / 30	1.86	NRL			NA			NA			NA	
MNX	0.11 J	1 / 14		NA			NA			NA			NA	
Nitrobenzene	-	0 / 30	<	1.13	U		NA			NA			NA	
RDX	20	23 / 32	7.81	NRL		15.4	NRL		9	NRL		20	NRL	
Tetryl	0.949	1 / 28		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW090-EXPLOSIVES

FIELD ID			NW090			NW090			NW090			NW090			NW090			NW090			NW090		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/10/2005			3/10/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 9				<	0.53	U	<	0.3	U	<	0.26	U	<	0.35	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9				<	0.53	U	<	0.3	U	<	0.17	U	<	0.23	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9				<	0.53	U	<	0.3	U	<	0.22	U	<	0.29	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 9				<	0.53	U	<	0.58	U	<	0.17	U	<	0.23	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 9	**Abandoned**			<	0.53	U	<	0.58	U	<	0.67	U	<	0.91	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	**2005**			<	0.53	U	<	0.58	U	<	0.27	U	<	0.37	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 9				<	0.53	U	<	0.58	U	<	0.53	U	<	0.72	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 9				<	0.53	U	<	0.58	U	<	0.34	U	<	0.45	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 9				<	0.53	U	<	0.58	U	<	0.46	U	<	0.62	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 9				<	0.53	U	<	0.93	U	<	1.1	U	<	1.5	U	<	0.8	U	<	1.1	U
HMX	-	0 / 9				<	0.53	U	<	0.73	U	<	0.74	U	<	1.0	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.53	U	<	0.3	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 9				<	0.53	U	<	0.3	U	<	0.3	U	<	0.41	U	<	0.8	U	<	0.8	U
RDX	-	0 / 9				<	0.53	U	<	0.3	U	<	0.43	U	<	0.59	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 9				<	0.53	U	<	0.58	U	<	0.72	U	<	0.97	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW090-EXPLOSIVES

FIELD ID			NW090			NW090			NW090		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/19/1999			6/13/1998			9/13/1997		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.233	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.173	U
2-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.319	U
3-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.309	U
4-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.368	U
HMX	-	0 / 9	<	0.8	U	<	0.500	U	<	0.16	U
MNX	-	0 / 2		NA			NA			NA	
Nitrobenzene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.231	U
RDX	-	0 / 9	<	0.8	U	<	1.00	U	<	0.558	U
Tetryl	-	0 / 9	<	0.8	U	<	0.500	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW091-EXPLOSIVES

FIELD ID			NW091			NW091			NW091			NW091			NW091			NW091			NW091		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/10/2005			3/10/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 9				<	0.48	U	<	0.16	U	<	0.32	U	<	0.38	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 9				<	0.48	U	<	0.16	U	<	0.21	U	<	0.26	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 9				<	0.48	U	<	0.16	U	<	0.26	U	<	0.32	U	<	0.8	U	<	1.5	U
2,4-Dinitrotoluene	-	0 / 9				<	0.48	U	<	0.31	U	<	0.21	U	<	0.26	U	<	0.8	U	<	1.1	U
2,6-Dinitrotoluene	-	0 / 9	**Abandoned**			<	0.48	U	<	0.31	U	<	0.82	U	<	0.99	U	<	0.8	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	**2005**			<	0.48	U	<	0.31	U	<	0.33	U	<	0.40	U	<	0.8	U	<	1	U
2-Nitrotoluene	-	0 / 9				<	0.48	U	<	0.31	U	<	0.65	U	<	0.78	U	<	0.8	U	<	1.1	U
3-Nitrotoluene	-	0 / 9				<	0.48	U	<	0.31	U	<	0.41	U	<	0.50	U	<	0.8	U	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 9				<	0.48	U	<	0.31	U	<	0.55	U	<	0.67	U	<	0.8	U	<	1	U
4-Nitrotoluene	-	0 / 9				<	0.48	U	<	0.5	U	<	1.3	U	<	1.6	U	<	0.8	U	<	1.1	U
HMX	-	0 / 9				<	0.48	U	<	0.39	U	<	0.9	U	<	1.1	U	<	1	U	<	0.8	U
MNX	-	0 / 2				<	0.48	U	<	0.16	U		NA			NA			NA			NA	
Nitrobenzene	-	0 / 9				<	0.48	U	<	0.16	U	<	0.37	U	<	0.45	U	<	0.8	U	<	0.8	U
RDX	-	0 / 9				<	0.48	U	<	0.16	U	<	0.53	U	<	0.64	U	<	0.8	U	<	0.8	U
Tetryl	-	0 / 9				<	0.48	U	<	0.31	U	<	0.87	U	<	1.1	U	<	0.8	U	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW091-EXPLOSIVES

FIELD ID			NW091			NW091			NW091		
METHOD	Maximum	Detection	SW846 M8330			UW51			UW51		
COLLECT DATE	Detection	Frequency	3/19/1999			6/13/1998			9/13/1997		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.125	U
1,3-Dinitrobenzene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.989	U
2,4,6-Trinitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.233	U
2,6-Dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.173	U
2-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.319	U
3-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.514	U
4-Amino-2,6-dinitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.309	U
4-Nitrotoluene	-	0 / 9	<	0.8	U	<	1.00	U	<	0.368	U
HMX	-	0 / 9	<	0.8	U	<	0.500	U	<	0.16	U
MNX	-	0 / 2		NA			NA			NA	
Nitrobenzene	-	0 / 9	<	0.8	U	<	0.500	U	<	0.231	U
RDX	-	0 / 9	<	0.8	U	<	1.00	U	<	0.558	U
Tetryl	-	0 / 9	<	0.8	U	<	0.500	U	<	0.253	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-EXPLOSIVES

FIELD ID			NW100			NW100			NW100			NW100			NW100			NW100			NW100		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/7/2013			2/29/2012			3/3/2011			3/10/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 23	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	0.63 J	1 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 9							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	0.9	1 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 21							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-EXPLOSIVES

FIELD ID			NW100			NW100			NW100			NW100			NW100			NW100			NW100		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/5/2008			3/8/2007			3/8/2006			None			3/16/2004			3/13/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U				<	0.24	U	<	0.33	U	<	0.39	U
1,3-Dinitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U				<	0.24	U	<	0.22	U	<	0.26	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U				<	0.24	U	<	0.28	U	<	0.32	U
2,4-Dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U				<	0.46	U	<	0.22	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	**No 2005 Sample**			<	0.46	U	<	0.86	U	<	1.0	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.48	U	<	0.49	U	<	0.48	U	**Well Dry**			<	0.46	U	<	0.35	U	<	0.40	U
2-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U				<	0.46	U	<	0.68	U	<	0.79	U
3-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U				<	0.46	U	<	0.43	U	<	0.50	U
4-Amino-2,6-dinitrotoluene	0.63 J	1 / 17	<	0.48	U	<	0.49	U	<	0.48	U				<	0.46	U	<	0.58	U	<	0.68	U
4-Nitrotoluene	-	0 / 17	<	0.48	U	<	0.49	U	<	0.48	U				<	0.74	U	<	1.4	U	<	1.6	U
HMX	-	0 / 25	<	0.48	U	<	0.49	U	<	0.48	U				<	0.58	U	<	0.94	U	<	1.1	U
MNX	-	0 / 9	<	0.48	U	<	0.49	U	<	0.48	U				<	0.24	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.48	U	<	0.49	U	<	0.48	U				<	0.24	U	<	0.39	U	<	0.45	U
RDX	0.9	1 / 25	<	0.48	U	<	0.49	U	<	0.48	U				<	0.24	U	<	0.55	U	<	0.65	U
Tetryl	-	0 / 21	<	0.48	U	<	0.49	U	<	0.48	U				<	0.46	U	<	0.91	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-EXPLOSIVES

FIELD ID			NW100			NW100			NW100			NW100			NW100			NW100			NW100		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/19/2001			3/8/2000			3/22/1999			6/12/1998			10/1/1997			2/18/1997			7/12/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	0.63 J	1 / 17	0.63	0.8	J	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 25	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 9		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	0.9	1 / 25	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 21	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-EXPLOSIVES

FIELD ID			NW100			NW100			NW100			NW100			NW100			NW100			NW100		
METHOD	Maximum	Detection	UW33			UW32			UW33			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	6/8/1994			8/22/1992			7/23/1991			6/1/1991			10/17/1990			4/30/1990			5/17/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.425	UJ	<	0.449	U	<	0.425	U	<	0.21	U		NA			NA			NA	
1,3-Dinitrobenzene	-	0 / 23	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U		NA			NA			NA	
2,4,6-Trinitrotoluene	-	0 / 23	<	0.451	UJ	<	0.635	U	<	0.451	U	<	0.426	U		NA			NA			NA	
2,4-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U		NA			NA			NA	
2,6-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U		NA			NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	1	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	0.63 J	1 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 25	<	0.563	U	<	1.21	U	<	0.563	U	<	5.3	U	<	1.65	U	<	1.65	U	<	1.3	U
MNX	-	0 / 9		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U		NA			NA			NA	
RDX	0.9	1 / 25	<	0.412	U	<	1.17	U	<	0.412	U		NA		<	2.11	U	<	2.11	U	0.9	NRL	
Tetryl	-	0 / 21	<	1.18	U		NA		<	1.18	U	<	0.631	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-EXPLOSIVES

FIELD ID			NW100		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 23	<	0.1	U
1,3-Dinitrobenzene	-	0 / 23	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.1	U
2,4-Dinitrotoluene	-	0 / 23	<	0.1	U
2,6-Dinitrotoluene	-	0 / 23	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22		NA	
2-Nitrotoluene	-	0 / 17		NA	
3-Nitrotoluene	-	0 / 17		NA	
4-Amino-2,6-dinitrotoluene	0.63 J	1 / 17		NA	
4-Nitrotoluene	-	0 / 17		NA	
HMX	-	0 / 25		NA	
MNX	-	0 / 9		NA	
Nitrobenzene	-	0 / 22		NA	
RDX	0.9	1 / 25	<	0.1	U
Tetryl	-	0 / 21		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-EXPLOSIVES

FIELD ID			NW101			NW101			NW101			NW101			NW101			NW101			NW101		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/7/2013			2/29/2012			3/3/2011			3/10/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	3.15	2 / 26							0.54	0.8	J	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	2	3 / 26							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-EXPLOSIVES

FIELD ID			NW101			NW101			NW101			NW101			NW101			NW101			NW101		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/5/2008			3/9/2007			3/8/2006			3/9/2005			3/11/2004			3/13/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.26	U	<	0.28	U	<	0.42	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.26	U	<	0.19	U	<	0.28	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.26	U	<	0.23	U	<	0.35	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.19	U	<	0.28	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.72	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.29	U	<	0.44	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.57	U	<	0.87	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.36	U	<	0.55	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.49	U	<	0.74	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.82	U	<	1.2	U	<	1.8	U
HMX	3.15	2 / 26	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.64	U	<	0.79	U	<	1.2	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.26	U		NA			NA	
Nitrobenzene	-	0 / 23	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.26	U	<	0.33	U	<	0.49	U
RDX	2	3 / 26	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.26	U	0.24	0.47	J	<	0.71	U
Tetryl	-	0 / 22	<	0.48	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.51	U	<	0.77	U	<	1.2	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-EXPLOSIVES

FIELD ID			NW101			NW101			NW101			NW101			NW101			NW101			NW101		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/19/2001			3/8/2000			3/22/1999			6/12/1998			10/1/1997			2/18/1997			7/12/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	3.15	2 / 26	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	2	3 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-EXPLOSIVES

FIELD ID			NW101			NW101			NW101			NW101			NW101			NW101			NW101		
METHOD	Maximum	Detection	UW33			UW32			UW33			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	6/8/1994			8/22/1992			7/24/1991			6/1/1991			10/17/1990			4/30/1990			5/17/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.425	UJ	<	0.449	U	<	0.425	U	<	0.21	U		NA			NA			NA	
1,3-Dinitrobenzene	-	0 / 24	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U		NA			NA			NA	
2,4,6-Trinitrotoluene	-	0 / 24	<	0.451	UJ	<	0.635	U	<	0.451	U	<	0.426	U		NA			NA			NA	
2,4-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U		NA			NA			NA	
2,6-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U		NA			NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.244	U	<	0.158	U	<	0.5	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	3.15	2 / 26	<	0.563	U	<	1.21	U	<	0.563	U	<	5.3	U	<	1.65	U	<	1.65	U	3.15	NRL	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U		NA			NA			NA	
RDX	2	3 / 26	<	0.412	U	<	1.17	U	<	0.412	U		NA		<	2.11	U	<	2.11	U	1.29	NRL	
Tetryl	-	0 / 22	<	1.18	U		NA		<	1.18	U	<	0.631	U		NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-EXPLOSIVES

FIELD ID			NW101		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 24	<	0.1	U
1,3-Dinitrobenzene	-	0 / 24	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.1	U
2,4-Dinitrotoluene	-	0 / 24	<	0.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 23		NA	
2-Nitrotoluene	-	0 / 18		NA	
3-Nitrotoluene	-	0 / 18		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA	
4-Nitrotoluene	-	0 / 18		NA	
HMX	3.15	2 / 26		NA	
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 23		NA	
RDX	2	3 / 26	2	NRL	
Tetryl	-	0 / 22		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-EXPLOSIVES

FIELD ID			NW102			NW102			NW102			NW102			NW102			NW102			NW102		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/7/2013			2/29/2012			3/3/2011			3/10/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 23	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	1.77	4 / 26							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 21							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-EXPLOSIVES

FIELD ID			NW102			NW102			NW102			NW102			NW102			NW102			NW102		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/5/2008			3/8/2007			3/8/2006			3/10/2005			3/11/2004			3/12/2003			3/13/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.24	U	<	0.35	U
1,3-Dinitrobenzene	-	0 / 23	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.16	U	<	0.23	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.2	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 23	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.16	U	<	0.23	U
2,6-Dinitrotoluene	-	0 / 23	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.62	U	<	0.91	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.25	U	<	0.37	U
2-Nitrotoluene	-	0 / 18	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.49	U	<	0.72	U
3-Nitrotoluene	-	0 / 18	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.45	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.42	U	<	0.62	U
4-Nitrotoluene	-	0 / 18	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.75	U	<	1	U	<	1.5	U
HMX	-	0 / 25	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.58	U	<	0.68	U	<	1.0	U
MNX	-	0 / 10	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.24	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.28	U	<	0.41	U
RDX	1.77	4 / 26	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	0.4	0.24		0.15	0.4	J	<	0.59	U
Tetryl	-	0 / 21	<	0.47	U	<	0.53	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.66	U	<	0.97	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-EXPLOSIVES

FIELD ID			NW102			NW102			NW102			NW102			NW102			NW102			NW102		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/19/2001			3/8/2000			3/22/1999			6/12/1998			10/1/1997			2/18/1997			7/12/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 25	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	1.77	4 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 21	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-EXPLOSIVES

FIELD ID			NW102			NW102			NW102			NW102			NW102			NW102			NW102		
METHOD	Maximum	Detection	UW33			UW32			UW25			UW14			UW14			UW01			99		
COLLECT DATE	Detection	Frequency	6/8/1994			8/22/1992			6/3/1991			10/17/1990			4/30/1990			5/17/1989			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.425	J	<	0.449	U	<	0.21	U		NA			NA			NA		<	0.1	U
1,3-Dinitrobenzene	-	0 / 23	<	0.549	U	<	0.611	U	<	0.458	U		NA			NA			NA		<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.451	J	<	0.635	U	<	0.426	U		NA			NA			NA		<	0.1	U
2,4-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.064	U	<	0.397	U		NA			NA			NA		<	0.1	U
2,6-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.074	U	<	0.6	U		NA			NA			NA		<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 25	<	0.563	U	<	1.21	U	<	5.3	U	<	1.65	U	<	1.65	U	<	1.3	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.682	U		NA			NA			NA			NA	
RDX	1.77	4 / 26	<	0.412	U	<	1.17	U	<	0.416	U	<	2.11	U	<	2.11	U	1.77	NRL		0.2	NRL	
Tetryl	-	0 / 21	<	1.18	U		NA		<	1.24	U		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-EXPLOSIVES

FIELD ID			NW120			NW120			NW120			NW120			NW120			NW120			NW120		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			3/1/2012			3/3/2011			3/10/2010			3/5/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 22	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 17							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 17							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	0.61 J	7 / 24							<	0.8	U	<	0.8	U	0.19	0.8	J	<	0.4	U	<	0.48	U
MNX	-	0 / 9							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 21							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	2.88	14 / 26							<	0.8	U	<	0.8	U	1	0.8		<	0.2	U	<	0.48	U
Tetryl	-	0 / 20							<	0.8	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-EXPLOSIVES

FIELD ID			NW120			NW120			NW120			NW120			NW120			NW120			NW120		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			None			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.48	U				<	0.48	U	<	0.49	U	<	0.18	U	<	0.16	U	<	0.53	U
1,3-Dinitrobenzene	-	0 / 22	<	0.48	U				<	0.48	U	<	0.49	U	<	0.18	U	<	0.16	U	<	0.35	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.48	U				<	0.48	U	<	0.49	U	<	0.18	U	<	0.16	U	<	0.44	U
2,4-Dinitrotoluene	-	0 / 22	<	0.48	U				<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	0.35	U
2,6-Dinitrotoluene	-	0 / 22	<	0.48	U	**No 2007 Sample**			<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	1.4	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.48	U	**Obstructed**			<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	0.55	U
2-Nitrotoluene	-	0 / 17	<	0.48	U				<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	1.1	U
3-Nitrotoluene	-	0 / 17	<	0.48	U				<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	0.68	U
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.48	U				<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	0.92	U
4-Nitrotoluene	-	0 / 17	<	0.48	U				<	0.48	U	<	0.49	U	<	0.55	U	<	0.5	U	<	2.2	U
HMX	0.61 J	7 / 24	<	0.48	U				<	0.48	U	<	0.49	U	0.29	0.43	J	0.51	0.39		0.60	1.5	J
MNX	-	0 / 9	<	0.48	U				<	0.48	U	<	0.49	U	<	0.18	U		NA			NA	
Nitrobenzene	-	0 / 21	<	0.48	U				<	0.48	U	<	0.49	U	<	0.18	U	<	0.16	U	<	0.62	U
RDX	2.88	14 / 26	<	0.48	U				<	0.48	U	<	0.49	U	0.25	0.18		0.49	0.16		0.84	0.88	J
Tetryl	-	0 / 20	<	0.48	U				<	0.48	U	<	0.49	U	<	0.34	U	<	0.31	U	<	1.5	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-EXPLOSIVES

FIELD ID			NW120			NW120			NW120			NW120			NW120			NW120			NW120		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/15/2001			3/16/2000			3/25/1999			6/15/1998			10/3/1997			2/18/1997			7/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 22	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 17	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	0.61 J	7 / 24	0.61	1	J	<	0.8	U	0.513	0.8	J	<	0.500	U	<	0.16	U	0.404	0.16		<	0.563	U
MNX	-	0 / 9		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	2.88	14 / 26	0.97	0.8		1	0.8		1.22	0.8		<	1.00	U	1.37	0.558		2.88	0.558		1.69	NRL	
Tetryl	-	0 / 20	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-EXPLOSIVES

FIELD ID			NW120			NW120			NW120			NW120			NW120			NW120			NW120		
METHOD	Maximum	Detection	UW33			UW32			UW25			UW14			UW14			UW01			3S		
COLLECT DATE	Detection	Frequency	6/11/1994			9/2/1992			6/3/1991			10/18/1990			5/1/1990			5/24/1989			9/10/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 22	<	0.425	U	<	0.449	U	<	0.21	U		NA			NA			NA			NA	
1,3-Dinitrobenzene	-	0 / 22	<	0.549	U	<	0.611	U	<	0.458	U		NA			NA			NA			NA	
2,4,6-Trinitrotoluene	-	0 / 22	<	0.451	U	<	0.635	U	<	0.426	U		NA			NA			NA			NA	
2,4-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.064	U	<	0.397	U		NA			NA			NA			NA	
2,6-Dinitrotoluene	-	0 / 22	<	0.26	U	<	0.074	U	<	0.6	U		NA			NA			NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 21	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 17		NA			NA			NA			NA			NA			NA			NA	
HMX	0.61 J	7 / 24	<	0.563	U	<	1.21	U	<	0.533	U	<	1.65	U	<	1.65	U	<	1.3	U		NA	
MNX	-	0 / 9		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 21	<	0.817	U	<	0.645	U	<	0.682	U		NA			NA			NA			NA	
RDX	2.88	14 / 26	2.29	NRL		<	1.17	U	0.828	NRL		<	2.11	U	<	2.11	U	<	0.63	U	<	8.61	U
Tetryl	-	0 / 20	<	1.18	U		NA		<	0.631	U		NA			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-EXPLOSIVES

FIELD ID			NW120		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 22	<	0.1	U
1,3-Dinitrobenzene	-	0 / 22	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 22	<	0.1	U
2,4-Dinitrotoluene	-	0 / 22	<	0.1	U
2,6-Dinitrotoluene	-	0 / 22	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 21		NA	
2-Nitrotoluene	-	0 / 17		NA	
3-Nitrotoluene	-	0 / 17		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 17		NA	
4-Nitrotoluene	-	0 / 17		NA	
HMX	0.61 J	7 / 24		NA	
MNX	-	0 / 9		NA	
Nitrobenzene	-	0 / 21		NA	
RDX	2.88	14 / 26	0.2	NRL	
Tetryl	-	0 / 20		NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-EXPLOSIVES

FIELD ID			NW121			NW121			NW121			NW121			NW121			NW121			NW121		
METHOD	Maximum	Detection	SW846 M833			SW846 M833			SW846 M833			SW846 M833			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			3/1/2012			3/3/2011			3/10/2010			3/5/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 23	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	0.81	10 / 26							0.22	0.8	J	0.2	0.8	J	0.16	0.8	J	0.2	0.4	J	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	-	0 / 27							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	0.954	1 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-EXPLOSIVES

FIELD ID			NW121			NW121			NW121			NW121			NW121			NW121			NW121		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.18	U	<	0.21	U	<	0.40	U
1,3-Dinitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.18	U	<	0.21	U	<	0.26	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.18	U	<	0.21	U	<	0.33	U
2,4-Dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	1.0	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	0.41	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	0.81	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	0.69	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.58	U	<	0.65	U	<	1.6	U
HMX	0.81	10 / 26	<	0.48	U	<	0.49	U	0.53	0.48		0.62	0.53		0.81	0.45		0.65	0.51		<	1.1	U
MNX	-	0 / 10	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.18	U		NA			NA	
Nitrobenzene	-	0 / 23	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.18	U	<	0.21	U	<	0.46	U
RDX	-	0 / 27	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.18	U	<	0.21	U	<	0.66	U
Tetryl	0.954	1 / 22	<	0.48	U	<	0.49	U	<	0.48	U	<	0.53	U	<	0.36	U	<	0.4	U	<	1.1	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-EXPLOSIVES

FIELD ID			NW121			NW121			NW121			NW121			NW121			NW121			NW121		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/15/2001			3/16/2000			3/25/1999			6/15/1998			10/3/1997			12/12/1996			7/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	UJ	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	UJ	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.8	U	<	0.500	UJ	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	UJ	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	UJ	<	0.368	U	<	0.368	U		NA	
HMX	0.81	10 / 26	<	1	U	<	0.8	U	<	0.8	U	<	0.500	UJ	0.68	0.16		0.7	0.16		<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	UJ	<	0.231	U	<	0.231	U	<	0.817	U
RDX	-	0 / 27	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	UJ	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	0.954	1 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	UJ	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-EXPLOSIVES

FIELD ID			NW121			NW121			NW121			NW121			NW121			NW121			NW121		
METHOD	Maximum	Detection	UW33			UW32			UW33			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	6/11/1994			9/2/1992			7/23/1991			6/2/1991			10/18/1990			5/1/1990			5/24/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.425	U	<	0.449	U	<	0.425	U	<	0.21	U		NA			NA			NA	
1,3-Dinitrobenzene	-	0 / 23	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U		NA			NA			NA	
2,4,6-Trinitrotoluene	-	0 / 23	<	0.451	U	<	0.635	U	<	0.451	U	<	0.426	U		NA			NA			NA	
2,4-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U		NA			NA			NA	
2,6-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U		NA			NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.244	U	<	0.158	U	<	1	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	0.81	10 / 26	<	0.563	U	<	1.21	U	<	0.563	U	<	0.533	U	<	1.65	U	<	1.65	U	<	1.3	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U		NA			NA			NA	
RDX	-	0 / 27	<	0.412	U	<	1.17	U	<	0.412	U		NA		<	2.11	U	<	2.11	U	<	0.63	U
Tetryl	0.954	1 / 22	<	1.18	U		NA		<	1.18	U	0.954	NRL			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-EXPLOSIVES

FIELD ID			NW121			NW121		
METHOD	Maximum	Detection	38			99		
COLLECT DATE	Detection	Frequency	9/10/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 23		NA			NA	
1,3-Dinitrobenzene	-	0 / 23		NA			NA	
2,4,6-Trinitrotoluene	-	0 / 23		NA			NA	
2,4-Dinitrotoluene	-	0 / 23		NA			NA	
2,6-Dinitrotoluene	-	0 / 23		NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23		NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA	
HMX	0.81	10 / 26		NA			NA	
MNX	-	0 / 10		NA			NA	
Nitrobenzene	-	0 / 23		NA			NA	
RDX	-	0 / 27	<	8.61	U	<	0.1	U
Tetryl	0.954	1 / 22		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-EXPLOSIVES

FIELD ID			NW122			NW122			NW122			NW122			NW122			NW122			NW122		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			3/1/2012			3/3/2011			3/10/2010			3/5/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	UJ
1,3-Dinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
2,4,6-Trinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
2,4-Dinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
2,6-Dinitrotoluene	-	0 / 23	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	UJ
2-Amino-4,6-dinitrotoluene	-	0 / 23	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	UJ
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	UJ
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	UJ
HMX	-	0 / 26							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	UJ
Nitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	UJ
RDX	1.9	2 / 27							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	UJ
Tetryl	0.756	1 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-EXPLOSIVES

FIELD ID			NW122			NW122			NW122			NW122			NW122			NW122			NW122		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.26	U	<	0.17	U	<	0.44	U
1,3-Dinitrobenzene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.26	U	<	0.17	U	<	0.29	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.26	U	<	0.17	U	<	0.37	U
2,4-Dinitrotoluene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	0.29	U
2,6-Dinitrotoluene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	0.46	U
2-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	0.90	U
3-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	0.57	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	0.77	U
4-Nitrotoluene	-	0 / 18	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.81	U	<	0.54	U	<	1.8	U
HMX	-	0 / 26	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.63	U	<	0.42	U	<	1.2	U
MNX	-	0 / 10	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.26	U		NA			NA	
Nitrobenzene	-	0 / 23	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.26	U	<	0.17	U	<	0.51	U
RDX	1.9	2 / 27	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.26	U	<	0.17	U	<	0.73	U
Tetryl	0.756	1 / 22	<	0.49	U	<	0.49	U	<	0.48	U	<	0.51	U	<	0.5	U	<	0.34	U	<	1.2	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-EXPLOSIVES

FIELD ID			NW122			NW122			NW122			NW122			NW122			NW122			NW122		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/15/2001			3/16/2000			3/25/1999			6/15/1998			10/3/1997			12/12/1996			7/13/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 26	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	1.9	2 / 27	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	0.756	1 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-EXPLOSIVES

FIELD ID			NW122			NW122			NW122			NW122			NW122			NW122			NW122		
METHOD	Maximum	Detection	UW33			UW32			UW33			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	6/11/1994			9/2/1992			7/23/1991			6/2/1991			10/18/1990			5/1/1990			5/24/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.425	U	<	0.449	U	<	0.425	U	<	0.21	U		NA			NA			NA	
1,3-Dinitrobenzene	-	0 / 23	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U		NA			NA			NA	
2,4,6-Trinitrotoluene	-	0 / 23	<	0.451	U	<	0.635	U	<	0.451	U	<	0.426	U		NA			NA			NA	
2,4-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U		NA			NA			NA	
2,6-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U		NA			NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.244	U	<	0.158	U	<	1	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 26	<	0.563	U	<	1.21	U	<	0.563	U	<	0.533	U	<	1.65	U	<	1.65	U	<	1.3	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U		NA			NA			NA	
RDX	1.9	2 / 27	<	0.412	U	<	1.17	U	<	0.412	U		NA		<	2.11	U	<	2.11	U	1.9	NRL	
Tetryl	0.756	1 / 22	<	1.18	U		NA		<	1.18	U	0.756	NRL			NA			NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-EXPLOSIVES

FIELD ID			NW122			NW122		
METHOD	Maximum	Detection	38			99		
COLLECT DATE	Detection	Frequency	9/10/1985			11/29/1984		
			Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	-	0 / 23		NA			NA	
1,3-Dinitrobenzene	-	0 / 23		NA			NA	
2,4,6-Trinitrotoluene	-	0 / 23		NA			NA	
2,4-Dinitrotoluene	-	0 / 23		NA			NA	
2,6-Dinitrotoluene	-	0 / 23		NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23		NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA	
HMX	-	0 / 26		NA			NA	
MNX	-	0 / 10		NA			NA	
Nitrobenzene	-	0 / 23		NA			NA	
RDX	1.9	2 / 27	<	8.61	U	0.2	NRL	
Tetryl	0.756	1 / 22		NA			NA	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-EXPLOSIVES

FIELD ID			NW130R			NW130R			NW130R			NW130R			NW130R			NW130R			NW130R		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			3/1/2012			3/1/2011			3/8/2010			3/3/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 23	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	1.05	2 / 26							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 21							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-EXPLOSIVES

FIELD ID			NW130R			NW130R			NW130R			NW130R			NW130R			NW130			NW130		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2008			3/6/2007			3/8/2006			3/8/2005			3/16/2004			3/11/2003			3/13/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.16	U	<	0.30	U
1,3-Dinitrobenzene	-	0 / 23	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.16	U	<	0.20	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.16	U	<	0.25	U
2,4-Dinitrotoluene	-	0 / 23	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.20	U
2,6-Dinitrotoluene	-	0 / 23	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.79	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.32	U
2-Nitrotoluene	-	0 / 18	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.62	U
3-Nitrotoluene	-	0 / 18	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.53	U
4-Nitrotoluene	-	0 / 18	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.74	U	<	0.5	U	<	1.3	U
HMX	-	0 / 25	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.58	U	<	0.39	U	<	0.86	U
MNX	-	0 / 10	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.24	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.16	U	<	0.35	U
RDX	1.05	2 / 26	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.24	U	<	0.16	U	<	0.51	U
Tetryl	-	0 / 21	<	0.47	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.46	U	<	0.31	U	<	0.84	U

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-EXPLOSIVES

FIELD ID			NW130			NW130			NW130			NW130			NW130			NW130			NW130		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/14/2001			3/13/2000			3/18/1999			6/25/1998			10/1/1997			2/19/1997			7/16/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 23	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 25	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	1.05	2 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 21	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-EXPLOSIVES

FIELD ID			NW130			NW130			NW130			NW130			NW130			NW130			NW130		
METHOD	Maximum	Detection	UW33			UW32			UW25			UW14			UW14			UW01			99		
COLLECT DATE	Detection	Frequency	6/9/1994			9/3/1992			5/31/1991			10/17/1990			4/30/1990			5/24/1989			11/29/1984		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 23	<	0.425	U	<	0.449	U	<	0.21	U		NA			NA			NA		<	0.1	U
1,3-Dinitrobenzene	-	0 / 23	<	0.549	U	<	0.611	U	<	0.458	U		NA			NA			NA		<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 23	<	0.451	U	<	0.635	U	<	0.426	U		NA			NA			NA		<	0.1	U
2,4-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.064	U	<	0.397	U		NA			NA			NA		<	0.1	U
2,6-Dinitrotoluene	-	0 / 23	<	0.26	U	<	0.074	U	<	0.6	U		NA			NA			NA		<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 25	<	0.563	U	<	1.21	U	<	5.3	U	<	1.65	U	<	1.65	U	<	1.3	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.682	U		NA			NA			NA			NA	
RDX	1.05	2 / 26	<	0.412	U	<	1.17	U	<	0.416	U	<	2.11	U	<	2.11	U	1.05	NRL		0.4	NRL	
Tetryl	-	0 / 21	<	1.18	U		NA		<	0.631	U		NA			NA			NA			NA	

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-EXPLOSIVES

FIELD ID			NW131R			NW131R			NW131R			NW131R			NW131R			NW131R			NW131R		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			3/1/2012			3/1/2011			3/8/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,4,6-Trinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.49	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.49	U
HMX	-	0 / 26							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.49	U
Nitrobenzene	-	0 / 23							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.49	U
RDX	0.4	1 / 26							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.49	U
Tetryl	-	0 / 22							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.49	U

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-EXPLOSIVES

FIELD ID			NW131R			NW131R			NW131R			NW131R			NW131R			NW131			NW131		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2008			3/5/2007			3/8/2006			3/9/2005			3/9/2004			3/11/2003			3/13/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.18	U	<	0.18	U	<	0.35	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.18	U	<	0.18	U	<	0.23	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.18	U	<	0.18	U	<	0.29	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.23	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.90	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.36	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.71	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.45	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.61	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.58	U	<	0.55	U	<	1.5	U
HMX	-	0 / 26	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.45	U	<	0.43	U	<	0.99	U
MNX	-	0 / 10	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.18	U		NA			NA	
Nitrobenzene	-	0 / 23	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.18	U	<	0.18	U	<	0.41	U
RDX	0.4	1 / 26	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.18	U	<	0.18	U	<	0.58	U
Tetryl	-	0 / 22	<	0.48	U	<	0.5	U	<	0.48	U	<	0.48	U	<	0.36	U	<	0.34	U	<	0.96	U

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-EXPLOSIVES

FIELD ID			NW131			NW131			NW131			NW131			NW131			NW131			NW131		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/14/2001			3/13/2000			3/18/1999			6/25/1998			10/1/1997			2/19/1997			7/16/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 26	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	0.4	1 / 26	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 22	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-EXPLOSIVES

FIELD ID			NW131			NW131			NW131			NW131			NW131			NW131			NW131		
METHOD	Maximum	Detection	UW33			UW32			UW33			UW25			UW14			UW14			UW01		
COLLECT DATE	Detection	Frequency	6/9/1994			9/3/1992			7/24/1991			6/2/1991			10/17/1990			4/30/1990			5/24/1989		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.425	U	<	0.449	U	<	0.425	U	<	0.21	U		NA			NA			NA	
1,3-Dinitrobenzene	-	0 / 24	<	0.549	U	<	0.611	U	<	0.549	U	<	0.458	U		NA			NA			NA	
2,4,6-Trinitrotoluene	-	0 / 24	<	0.451	U	<	0.635	U	<	0.451	U	<	0.426	U		NA			NA			NA	
2,4-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.064	U	<	0.26	U	<	0.397	U		NA			NA			NA	
2,6-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.074	U	<	0.26	U	<	0.6	U		NA			NA			NA	
2-Amino-4,6-dinitrotoluene	-	0 / 23	<	0.244	U	<	0.158	U	<	0.5	U	<	0.8	U		NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 26	<	0.563	U	<	1.21	U	<	0.563	U	<	5.3	U	<	1.65	U	<	1.65	U	<	1.3	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 23	<	0.817	U	<	0.645	U	<	0.817	U	<	0.682	U		NA			NA			NA	
RDX	0.4	1 / 26	<	0.412	U	<	1.17	U	<	0.412	U		NA		<	2.11	U	<	2.11	U	<	0.63	U
Tetryl	-	0 / 22	<	1.18	U		NA		<	1.18	U	<	0.631	U		NA			NA			NA	

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-EXPLOSIVES

FIELD ID			NW131		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 24	<	0.1	U
1,3-Dinitrobenzene	-	0 / 24	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.1	U
2,4-Dinitrotoluene	-	0 / 24	<	0.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 23		NA	
2-Nitrotoluene	-	0 / 18		NA	
3-Nitrotoluene	-	0 / 18		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA	
4-Nitrotoluene	-	0 / 18		NA	
HMX	-	0 / 26		NA	
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 23		NA	
RDX	0.4	1 / 26	0.4	NRL	
Tetryl	-	0 / 22		NA	

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-EXPLOSIVES

FIELD ID			NW132R			NW132R			NW132R			NW132R			NW132R			NW132R			NW132R		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			3/6/2013			3/1/2012			3/1/2011			3/8/2010			3/4/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 24							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 24	**Abandoned**			**Not Sampled**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	**2020**			**in 2014 through 2019**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
2-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
3-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 18							<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U
4-Nitrotoluene	-	0 / 18							<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U
HMX	-	0 / 25							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
MNX	-	0 / 10							<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U
Nitrobenzene	-	0 / 22							<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U
RDX	2.4	2 / 27							<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U
Tetryl	-	0 / 21							<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-EXPLOSIVES

FIELD ID			NW132R			NW132R			NW132R			NW132R			NW132R			NW132			NW132		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/4/2008			3/6/2007			3/8/2006			3/9/2005			3/9/2004			3/11/2003			3/12/2002		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.18	U	<	0.18	U	<	0.30	U
1,3-Dinitrobenzene	-	0 / 24	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.18	U	<	0.18	U	<	0.20	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.18	U	<	0.18	U	<	0.25	U
2,4-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.20	U
2,6-Dinitrotoluene	-	0 / 24	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.78	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.31	U
2-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.61	U
3-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.39	U
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.52	U
4-Nitrotoluene	-	0 / 18	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.55	U	<	0.55	U	<	1.2	U
HMX	-	0 / 25	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.43	U	<	0.43	U	<	0.85	U
MNX	-	0 / 10	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.18	U		NA			NA	
Nitrobenzene	-	0 / 22	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.18	U	<	0.18	U	<	0.35	U
RDX	2.4	2 / 27	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.18	U	<	0.18	U	<	0.50	U
Tetryl	-	0 / 21	<	0.48	U	<	0.51	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.34	U	<	0.82	U

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-EXPLOSIVES

FIELD ID			NW132			NW132			NW132			NW132			NW132			NW132			NW132		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51			UW33		
COLLECT DATE	Detection	Frequency	3/14/2001			3/13/2000			3/18/1999			6/25/1998			10/1/1997			2/19/1997			7/16/1994		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.125	U	<	0.125	U	<	0.425	U
1,3-Dinitrobenzene	-	0 / 24	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.989	U	<	0.989	U	<	0.549	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.8	U	<	1.5	U	<	0.8	U	<	1.00	U	<	0.29	U	<	0.29	U	<	0.451	U
2,4-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.233	U	<	0.233	U	<	0.26	U
2,6-Dinitrotoluene	-	0 / 24	<	0.8	U	<	1.1	U	<	0.8	U	<	0.500	U	<	0.2	U	<	0.2	U	<	0.26	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.8	U	<	1	U	<	0.8	U	<	0.500	U	<	0.173	U	<	0.173	U	<	0.244	U
2-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.319	U	<	0.319	U		NA	
3-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.514	U	<	0.514	U		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18	<	0.8	U	<	1	U	<	0.8	U	<	1.00	U	<	0.309	U	<	0.309	U		NA	
4-Nitrotoluene	-	0 / 18	<	0.8	U	<	1.1	U	<	0.8	U	<	1.00	U	<	0.368	U	<	0.368	U		NA	
HMX	-	0 / 25	<	1	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.16	U	<	0.16	U	<	0.563	U
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.231	U	<	0.231	U	<	0.817	U
RDX	2.4	2 / 27	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	0.558	U	<	0.558	U	<	0.412	U
Tetryl	-	0 / 21	<	0.8	U	<	1.3	U	<	0.8	U	<	0.500	U	<	0.253	U	<	0.253	U	<	1.18	U

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-EXPLOSIVES

FIELD ID			NW132			NW132			NW132			NW132			NW132			NW132			NW132		
METHOD	Maximum	Detection	UW33			UW32			UW25			UW14			UW14			UW01			99		
COLLECT DATE	Detection	Frequency	6/9/1994			9/3/1992			6/3/1991			10/17/1990			4/30/1990			5/24/1989			3/15/1985		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 24	<	0.425	U	<	0.449	U	<	0.21	U		NA			NA			NA		<	0.1	U
1,3-Dinitrobenzene	-	0 / 24	<	0.549	U	<	0.611	U	<	0.458	U		NA			NA			NA		<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.451	U	<	0.635	U	<	0.426	U		NA			NA			NA		<	0.1	U
2,4-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.064	U	<	0.397	U		NA			NA			NA		<	0.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.26	U	<	0.074	U	<	0.6	U		NA			NA			NA		<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22	<	0.244	U	<	0.158	U	<	0.8	U		NA			NA			NA			NA	
2-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
3-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
4-Nitrotoluene	-	0 / 18		NA			NA			NA			NA			NA			NA			NA	
HMX	-	0 / 25	<	0.563	U	<	1.21	U	<	5.3	U	<	1.65	U	<	1.65	U	<	1.3	U		NA	
MNX	-	0 / 10		NA			NA			NA			NA			NA			NA			NA	
Nitrobenzene	-	0 / 22	<	0.817	U	<	0.645	U	<	0.682	U		NA			NA			NA			NA	
RDX	2.4	2 / 27	<	0.412	U	<	1.17	U	<	0.416	U	<	2.11	U	<	2.11	U	<	0.63	U	1.4	NRL	
Tetryl	-	0 / 21	<	1.18	U		NA		<	0.874	U		NA			NA			NA			NA	

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-EXPLOSIVES

FIELD ID			NW132		
METHOD	Maximum	Detection	99		
COLLECT DATE	Detection	Frequency	11/29/1984		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 24	<	0.1	U
1,3-Dinitrobenzene	-	0 / 24	<	0.1	U
2,4,6-Trinitrotoluene	-	0 / 24	<	0.1	U
2,4-Dinitrotoluene	-	0 / 24	<	0.1	U
2,6-Dinitrotoluene	-	0 / 24	<	0.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 22		NA	
2-Nitrotoluene	-	0 / 18		NA	
3-Nitrotoluene	-	0 / 18		NA	
4-Amino-2,6-dinitrotoluene	-	0 / 18		NA	
4-Nitrotoluene	-	0 / 18		NA	
HMX	-	0 / 25		NA	
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 22		NA	
RDX	2.4	2 / 27	2.4	NRL	
Tetryl	-	0 / 21		NA	

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LOQ = limit of quantification
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

E.1 Explosives

E.1.5 OU1 OFF-POST FEEDLOT WELLS

WELL	TABLE
CA350	E.1.5-1
CA351	E.1.5-2
CA352	E.1.5-3
CA360	E.1.5-4
CA361	E.1.5-5
CA362	E.1.5-6
CA370	E.1.5-7
CA380	E.1.5-8
CA381	E.1.5-9
CA382	E.1.5-10
CA390	E.1.5-11

FEEDLOT LAGOON (SURFACE WATER SAMPLING)

SURFACE WATER SAMPLES	TABLE
Lagoon SW001-SW005	E.1.5-12

TABLE E.1.5-1
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA350-EXPLOSIVES

FIELD ID			CA350			CA350			CA350			CA350			CA350			CA350			CA350		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/20/2013			3/7/2012			3/9/2011			3/11/2010			3/11/2009			3/10/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 12	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	2.2	7 / 12				<	0.8	U	0.52	0.8	J	<	0.8	J	1.1	0.4		1.7	0.48		2.2	0.48	
MNX		0 / 6				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
RDX	0.21 J	1 / 12				<	0.8	U	<	0.8	UJ	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 12				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-1
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA350-EXPLOSIVES

FIELD ID			CA350			CA350			CA350			CA350			CA350			CA350			CA350		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			None			3/24/2003			3/26/2002			4/2/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12													<	0.24	U	<	0.28	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 12													<	0.24	U	<	0.18	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 12													<	0.24	U	<	0.23	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 12													<	0.46	U	<	0.18	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 12	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			<	0.46	U	<	0.71	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.46	U	<	0.29	U	<	0.8	U
2-Nitrotoluene	-	0 / 12													<	0.46	U	<	0.56	U	<	0.8	U
3-Nitrotoluene	-	0 / 12													<	0.46	U	<	0.36	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 12													<	0.46	U	<	0.48	U	<	0.8	U
4-Nitrotoluene	-	0 / 12													<	0.74	U	<	1.2	U	<	0.8	U
HMX	2.2	7 / 12													1.7	0.58		0.82	0.78		<	1	U
MNX		0 / 6														NA			NA			NA	
Nitrobenzene	-	0 / 12													<	0.24	U	<	0.32	U	<	0.8	U
RDX	0.21 J	1 / 12													0.21	0.24	J	<	0.46	U	<	0.8	U
Tetryl	-	0 / 12													<	0.46	U	<	0.76	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-1
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA350-EXPLOSIVES

FIELD ID			CA350			CA350			CA350		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/22/2000			4/1/1999			6/17/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 12	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	1.00	U
HMX	2.2	7 / 12	<	0.8	U	0.71	0.8	J	<	0.500	U
MNX		0 / 6		NA			NA			NA	
Nitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.500	U
RDX	0.21 J	1 / 12	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 12	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-2
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA351-EXPLOSIVES

FIELD ID			CA351			CA351			CA351			CA351			CA351			CA351			CA351		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/20/2013			3/7/2012			3/9/2011			3/11/2010			3/11/2009			3/10/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.98	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	24 J	9 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	3.78 J	10 / 16				<	0.8	U	<	0.8	U	<	0.8	U	0.19	0.39	J	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 16	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	65 J	16 / 16	**2013**			1.2	0.8	J	1.7	0.8		4.2	0.8		5.8	0.2		6.6	0.48		5.1	0.48	
2-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	49.4 J	16 / 16				1.1	1.4	J	2.4	1.4		5.9	0.8		4.9	0.2		7.5	0.48		3.9	0.48	
4-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.98	U	<	0.48	U	<	0.48	U
HMX	14.8 J	16 / 16				1	0.8	J	1.9	0.8		2.9	0.8		1.2	0.39	J	4.7	0.48		1.2	0.48	
MNX	0.11 J	1 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.39	U	<	0.48	U	<	0.48	U
RDX	16	12 / 16				<	0.8	U	0.93	0.8		1.4	0.8		0.45	0.2		<	0.48	U	<	0.48	U
Tetryl	-	0 / 16				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-2
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA351-EXPLOSIVES

FIELD ID			CA351			CA351			CA351			CA351			CA351			CA351			CA351		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			4/2/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.25	U	<	0.17	U	<	0.34	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.25	U	<	0.17	U	<	0.23	U	<	0.8	U
2,4,6-Trinitrotoluene	24 J	9 / 16	<	0.49	U	0.71	0.48		1	0.48		2.4	0.25		6	0.17		11	2.8	J	24	8	J
2,4-Dinitrotoluene	3.78 J	10 / 16	<	0.49	U	0.67	0.48		0.85	0.48		1.4	0.49		1.9	0.34		2.9	0.23	J	3.6	0.8	
2,6-Dinitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.88	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	65 J	16 / 16	12	0.49		14	0.48		18	0.48	P	28	2.5		35	3.4		49	3.5	J	65	8	J
2-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.69	U	<	0.8	U
3-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.44	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	49.4 J	16 / 16	6.6	0.49		8.8	0.48		11	0.48		15	0.49		21	3.4		35	6.0	J	45	8	J
4-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.79	U	<	0.54	U	<	1.4	U	<	0.8	U
HMX	14.8 J	16 / 16	1.7	0.49		1.8	0.48	J	2	0.48		2.7	0.62		2.7	0.42		6.1	0.96	J	5.8	1	J
MNX	0.11 J	1 / 10	<	0.49	U	<	0.48	U	<	0.48	U	0.11	0.25	J		NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.25	U	<	0.17	U	<	0.40	U	<	0.8	U
RDX	16	12 / 16	<	0.49	U	0.66	0.48		1.1	0.48		1.9	0.25		2.5	0.17		7.2	0.57	J	12	0.8	U
Tetryl	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.49	U	<	0.34	U	<	0.94	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-2
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA351-EXPLOSIVES

FIELD ID			CA351			CA351			CA351		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/22/2000			4/1/1999			6/17/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	1.00	UJ
1,3-Dinitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	0.500	UJ
2,4,6-Trinitrotoluene	24 J	9 / 16	17	30	J	12	0.8		18.8	1.00	J
2,4-Dinitrotoluene	3.78 J	10 / 16	2.9	1.1		2.4	0.8		3.78	0.500	J
2,6-Dinitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	0.500	UJ
2-Amino-4,6-dinitrotoluene	65 J	16 / 16	56	20		42	4		53.4	0.500	J
2-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	UJ
3-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	UJ
4-Amino-2,6-dinitrotoluene	49.4 J	16 / 16	42	20		33	4		49.4	1.00	J
4-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	UJ
HMX	14.8 J	16 / 16	7	0.8		5.9	0.8		14.8	0.500	J
MNX	0.11 J	1 / 10		NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	0.500	UJ
RDX	16	12 / 16	16	0.8		12	0.8	J	13.5	1.00	J
Tetryl	-	0 / 16	<	1.3	U	<	0.8	U	<	0.500	UJ

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-3
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA352-EXPLOSIVES

FIELD ID			CA352			CA352			CA352			CA352			CA352			CA352			CA352		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/20/2013			3/7/2012			3/9/2011			3/11/2010			3/11/2009			3/10/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U
1,3-Dinitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
2,4,6-Trinitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
2,4-Dinitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
2,6-Dinitrotoluene	-	0 / 16	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
2-Amino-4,6-dinitrotoluene	2.7	3 / 16	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
2-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
3-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
4-Amino-2,6-dinitrotoluene	1.8	2 / 16				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
4-Nitrotoluene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U
HMX	3.1	3 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.47	U
Nitrobenzene	-	0 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.47	U
RDX	0.5 J	2 / 16				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
Tetryl	-	0 / 16				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.47	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-3
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA352-EXPLOSIVES

FIELD ID			CA352			CA352			CA352			CA352			CA352			CA352			CA352		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/29/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			4/2/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.40	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.27	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.33	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.27	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	1.0	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	2.7	3 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.42	U	0.24	0.8	J
2-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.82	U	<	0.8	U
3-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.52	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	1.8	2 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	0.70	U	<	0.8	U
4-Nitrotoluene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.67	U	<	0.5	U	<	1.7	U	<	0.8	U
HMX	3.1	3 / 16	0.54	0.49		<	0.48	U	<	0.48	U	<	0.52	U	<	0.39	U	<	1.1	U	<	1	U
MNX	-	0 / 10	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U		NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.47	U	<	0.8	U
RDX	0.5 J	2 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.16	U	<	0.67	U	<	0.8	U
Tetryl	-	0 / 16	<	0.49	U	<	0.48	U	<	0.48	U	<	0.41	U	<	0.31	U	<	1.1	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-3
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA352-EXPLOSIVES

FIELD ID			CA352			CA352			CA352		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/22/2000			4/1/1999			6/17/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 16	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	2.7	3 / 16	2.7	1		0.68	0.8	J	<	0.500	U
2-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	1.8	2 / 16	1.8	1		0.94	0.8		<	1.00	U
4-Nitrotoluene	-	0 / 16	<	1.1	U	<	0.8	U	<	1.00	U
HMX	3.1	3 / 16	3.1	0.8		0.95	0.8		<	0.500	U
MNX	-	0 / 10		NA			NA			NA	
Nitrobenzene	-	0 / 16	<	0.8	U	<	0.8	U	<	0.500	U
RDX	0.5 J	2 / 16	0.5	0.8	J	0.37	0.8	J	<	1.00	U
Tetryl	-	0 / 16	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-4
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA360-EXPLOSIVES

FIELD ID			CA360			CA360			CA360			CA360			CA360			CA360			CA360		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/21/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.25 J	1 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	1.1	U	<	0.49	U	<	0.49	U
1,3-Dinitrobenzene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
2,4,6-Trinitrotoluene	0.12 J	1 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
2,4-Dinitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
2,6-Dinitrotoluene	-	0 / 15	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.22	U	<	0.49	U	<	0.49	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.22	U	<	0.49	U	<	0.49	U
2-Nitrotoluene	1.4	1 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
3-Nitrotoluene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
4-Amino-2,6-dinitrotoluene	-	0 / 15				<	1.4	U	<	1.4	U	<	0.8	U	<	0.22	U	<	0.49	U	<	0.49	U
4-Nitrotoluene	0.89	1 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	1.1	U	<	0.49	U	<	0.49	U
HMX	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
MNX	0.17 J	1 / 9				<	0.8	U	<	0.8	U	<	0.8	U	<	2.2	U	<	0.49	U	<	0.49	U
Nitrobenzene	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.43	U	<	0.49	U	<	0.49	U
RDX	-	0 / 15				<	0.8	U	<	0.8	U	<	0.8	U	<	0.22	U	<	0.49	U	<	0.49	U
Tetryl	-	0 / 15				<	1.6	U	<	0.8	U	<	0.8	U	<	0.26	U	<	0.49	U	<	0.49	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-4
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA360-EXPLOSIVES

FIELD ID			CA360			CA360			CA360			CA360			CA360			CA360			CA360		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/20/2006			None			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	0.25 J	1 / 15	<	0.5	U	<	0.48	U				<	0.18	U	<	0.23	U	<	0.52	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 15	<	0.5	U	<	0.48	U				<	0.18	U	<	0.23	U	<	0.35	U	<	0.8	U
2,4,6-Trinitrotoluene	0.12 J	1 / 15	<	0.5	U	<	0.48	U				0.12	0.18	J	<	0.23	U	<	0.43	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 15	<	0.5	U	<	0.48	U				<	0.34	U	<	0.45	U	<	0.35	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 15	<	0.5	U	<	0.48	U	**No 2005 Sample**			<	0.34	U	<	0.45	U	<	1.3	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	<	0.5	U	<	0.48	U	**Well Dry**			<	0.34	U	<	0.45	U	<	0.54	U	<	0.8	U
2-Nitrotoluene	1.4	1 / 15	<	0.5	U	1.4	0.48					<	0.34	U	<	0.45	U	<	1.1	U	<	0.8	U
3-Nitrotoluene	-	0 / 15	<	0.5	U	<	0.48	U				<	0.34	U	<	0.45	U	<	0.67	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 15	<	0.5	U	<	0.48	U				<	0.34	U	<	0.45	U	<	0.91	U	<	0.8	U
4-Nitrotoluene	0.89	1 / 15	<	0.5	U	<	0.48	U				<	0.55	U	0.89	0.73		<	2.2	U	<	0.8	U
HMX	-	0 / 15	<	0.5	U	<	0.48	U				<	0.43	U	<	0.57	U	<	1.5	U	<	1	U
MNX	0.17 J	1 / 9	<	0.5	U	<	0.48	U				0.17	0.18	J		NA			NA			NA	
Nitrobenzene	-	0 / 15	<	0.5	U	<	0.48	U				<	0.18	U	<	0.23	U	<	0.61	U	<	0.8	U
RDX	-	0 / 15	<	0.5	U	<	0.48	U				<	0.18	U	<	0.23	U	<	0.87	U	<	0.8	U
Tetryl	-	0 / 15	<	0.5	U	<	0.48	U				<	0.34	U	<	0.45	U	<	1.4	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-4
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA360-EXPLOSIVES

FIELD ID			CA360			CA360			CA360		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/22/2000			4/2/1999			6/17/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	0.25 J	1 / 15	<	0.8	U	0.25	0.8	J	<	1.00	U
1,3-Dinitrobenzene	-	0 / 15	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	0.12 J	1 / 15	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 15	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 15	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 15	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	1.4	1 / 15	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 15	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 15	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	0.89	1 / 15	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 15	<	0.8	U	<	0.8	U	<	0.500	U
MNX	0.17 J	1 / 9		NA			NA			NA	
Nitrobenzene	-	0 / 15	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 15	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 15	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-5
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA361-EXPLOSIVES

FIELD ID			CA361			CA361			CA361			CA361			CA361			CA361			CA361		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			2/21/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	0.72 J	1 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	0.57 J	1 / 14	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	0.57	0.2	J	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	0.91 J	1 / 14				<	0.8	U	<	0.8	U	<	0.8	U	0.91	0.41	J	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 14				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U
MNX	2.5	2 / 10				<	0.8	U	<	0.8	U	<	0.8	U	2.5	2		<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.48	U
RDX	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-5
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA361-EXPLOSIVES

FIELD ID			CA361			CA361			CA361			CA361			CA361			CA361			CA361		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.18	U	<	0.27	U	<	0.24	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.18	U	<	0.27	U	<	0.16	U	<	0.8	U
2,4,6-Trinitrotoluene	0.72 J	1 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.18	U	<	0.27	U	0.72	0.20	J	<	0.8	U
2,4-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.16	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.62	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	0.57 J	1 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.25	U	<	0.8	U
2-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.49	U	<	0.8	U
3-Nitrotoluene	0.91 J	1 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.31	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.42	U	<	0.8	U
4-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.58	U	<	0.84	U	<	1.0	U	<	0.8	U
HMX	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.45	U	<	0.66	U	<	0.68	U	<	1	U
MNX	2.5	2 / 10	<	0.48	U	<	0.49	U	<	0.48	U	0.41	0.18			NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.18	U	<	0.27	U	<	0.28	U	<	0.8	U
RDX	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.18	U	<	0.27	U	<	0.40	U	<	0.8	U
Tetryl	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.36	U	<	0.52	U	<	0.66	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-5
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA361-EXPLOSIVES

FIELD ID			CA361		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/22/2000		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 14	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.8	U
2,4,6-Trinitrotoluene	0.72 J	1 / 14	<	1.5	U
2,4-Dinitrotoluene	-	0 / 14	<	1.1	U
2,6-Dinitrotoluene	-	0 / 14	<	1.1	U
2-Amino-4,6-dinitrotoluene	0.57 J	1 / 14	<	1	U
2-Nitrotoluene	-	0 / 14	<	1.1	U
3-Nitrotoluene	0.91 J	1 / 14	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 14	<	1	U
4-Nitrotoluene	-	0 / 14	<	1.1	U
HMX	-	0 / 14	<	0.8	U
MNX	2.5	2 / 10		NA	
Nitrobenzene	-	0 / 14	<	0.8	U
RDX	-	0 / 14	<	0.8	U
Tetryl	-	0 / 14	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-6
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA362-EXPLOSIVES

FIELD ID			CA362			CA362			CA362			CA362			CA362			CA362			CA362		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/21/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	0.16 J	1 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 14				<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
MNX	0.24	1 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.42	U	<	0.48	U	<	0.48	U
RDX	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-6
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA362-EXPLOSIVES

FIELD ID			CA362			CA362			CA362			CA362			CA362			CA362			CA362		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.24	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.16	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.26	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.39	U	<	0.16	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.39	U	<	0.62	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.39	U	<	0.25	U	<	0.8	U
2-Nitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.39	U	<	0.49	U	<	0.8	U
3-Nitrotoluene	0.16 J	1 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	0.16	0.39	J	<	0.31	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.39	U	<	0.42	U	<	0.8	U
4-Nitrotoluene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.5	U	<	0.62	U	<	1.0	U	<	0.8	U
HMX	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.39	U	<	0.49	U	<	0.68	U	<	1	U
MNX	0.24	1 / 10	<	0.49	U	<	0.48	U	<	0.48	U	0.24	0.16			NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.28	U	<	0.8	U
RDX	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.16	U	<	0.2	U	<	0.40	U	<	0.8	U
Tetryl	-	0 / 14	<	0.49	U	<	0.48	U	<	0.48	U	<	0.31	U	<	0.39	U	<	0.66	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-6
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA362-EXPLOSIVES

FIELD ID			CA362		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/22/2000		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 14	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 14	<	1.5	U
2,4-Dinitrotoluene	-	0 / 14	<	1.1	U
2,6-Dinitrotoluene	-	0 / 14	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 14	<	1	U
2-Nitrotoluene	-	0 / 14	<	1.1	U
3-Nitrotoluene	0.16 J	1 / 14	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 14	<	1	U
4-Nitrotoluene	-	0 / 14	<	1.1	U
HMX	-	0 / 14	<	0.8	U
MNX	0.24	1 / 10		NA	
Nitrobenzene	-	0 / 14	<	0.8	U
RDX	-	0 / 14	<	0.8	U
Tetryl	-	0 / 14	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-7
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA370-EXPLOSIVES

FIELD ID			CA370[1]		
METHOD	Maximum	Detection	UW51		
COLLECT DATE	Detection	Frequency	6/17/1998		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0/1	<	1.00	U
1,3-Dinitrobenzene	-	0/1	<	0.500	U
2,4,6-Trinitrotoluene	-	0/1	<	1.00	U
2,4-Dinitrotoluene	-	0/1	<	0.500	U
2,6-Dinitrotoluene	-	0/1	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0/1	<	0.500	U
2-Nitrotoluene	-	0/1	<	1.00	U
3-Nitrotoluene	-	0/1	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0/1	<	1.00	U
4-Nitrotoluene	-	0/1	<	1.00	U
HMX	-	0/1	<	0.500	U
MNX				NA	
Nitrobenzene	-	0/1	<	0.500	U
RDX	-	0/1	<	1.00	U
Tetryl	-	0/1	<	0.500	U

Notes:
[1]Not part of LTM program.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LTM = long-term monitoring
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-8
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA380-EXPLOSIVES

FIELD ID			CA380			CA380			CA380			CA380			CA380			CA380			CA380		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/11/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U
1,3-Dinitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
2,4,6-Trinitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
2,4-Dinitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
2,6-Dinitrotoluene	-	0 / 12	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
2-Nitrotoluene	0.18 J	1 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U
HMX	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
MNX		0 / 6				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.47	U
Nitrobenzene	1.4	1 / 12				<	0.8	U	<	0.8	U	<	0.8	U	1.4	0.41		<	0.48	U	<	0.47	U
RDX	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.47	U
Tetryl	-	0 / 12				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.47	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-8
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA380-EXPLOSIVES

FIELD ID			CA380			CA380			CA380			CA380			CA380			CA380			CA380		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			None			None			None			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12													<	0.26	U	<	0.32	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 12													<	0.26	U	<	0.22	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 12													<	0.26	U	<	0.27	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 12													<	0.51	U	<	0.22	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 12	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			<	0.51	U	<	0.84	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			<	0.51	U	<	0.34	U	<	0.8	U
2-Nitrotoluene	0.18 J	1 / 12													<	0.51	U	<	0.66	U	0.18	0.8	J
3-Nitrotoluene	-	0 / 12													<	0.51	U	<	0.42	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 12													<	0.51	U	<	0.57	U	<	0.8	U
4-Nitrotoluene	-	0 / 12													<	0.82	U	<	1.4	U	<	0.8	U
HMX	-	0 / 12													<	0.64	U	<	0.92	U	<	1	U
MNX		0 / 6														NA			NA			NA	
Nitrobenzene	1.4	1 / 12													<	0.26	U	<	0.38	U	<	0.8	U
RDX	-	0 / 12													<	0.26	U	<	0.54	U	<	0.8	U
Tetryl	-	0 / 12													<	0.51	U	<	0.89	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-8
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA380-EXPLOSIVES

FIELD ID			CA380			CA380			CA380		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			UW51		
COLLECT DATE	Detection	Frequency	3/22/2000			4/2/1999			6/17/1998		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	1.00	U
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U	<	0.8	U	<	0.500	U
2,4,6-Trinitrotoluene	-	0 / 12	<	1.5	U	<	0.8	U	<	1.00	U
2,4-Dinitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	0.500	U
2,6-Dinitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	0.500	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	1	U	<	0.8	U	<	0.500	U
2-Nitrotoluene	0.18 J	1 / 12	<	1.1	U	<	0.8	U	<	1.00	U
3-Nitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	1.00	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	1	U	<	0.8	U	<	1.00	U
4-Nitrotoluene	-	0 / 12	<	1.1	U	<	0.8	U	<	1.00	U
HMX	-	0 / 12	<	0.8	U	<	0.8	U	<	0.500	U
MNX		0 / 6		NA			NA			NA	
Nitrobenzene	1.4	1 / 12	<	0.8	U	<	0.8	U	<	0.500	U
RDX	-	0 / 12	<	0.8	U	<	0.8	U	<	1.00	U
Tetryl	-	0 / 12	<	1.3	U	<	0.8	U	<	0.500	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-9
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA381-EXPLOSIVES

FIELD ID			CA381			CA381			CA381			CA381			CA381			CA381			CA381		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/11/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	2.3 J	2 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	0.34 J	1 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	23 J	4 / 14	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	22 J	4 / 14				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	8.4 J	6 / 14				1.6	0.8		<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	1.3	1 / 14				<	0.8	U	<	0.8	U	<	0.8	U	1.3	0.4		<	0.48	U	<	0.48	U
RDX	19 J	6 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-9
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA381-EXPLOSIVES

FIELD ID			CA381			CA381			CA381			CA381			CA381			CA381			CA381		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.22	U	<	0.21	U	<	0.34	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.22	U	<	0.21	U	<	0.22	U	<	0.8	U
2,4,6-Trinitrotoluene	2.3 J	2 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.22	U	<	0.21	U	2.3	0.28	J	1.9	0.8	U
2,4-Dinitrotoluene	0.34 J	1 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	<	0.4	U	0.34	0.22	J	<	0.8	U
2,6-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	<	0.4	U	<	0.87	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	23 J	4 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	8.3	0.4		23	3.5	J	18	8	
2-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	<	0.4	U	<	0.69	U	<	0.8	U
3-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	<	0.4	U	<	0.43	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	22 J	4 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	7.9	0.4		22	5.9	J	13	0.8	
4-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.7	U	<	0.64	U	<	1.4	U	<	0.8	U
HMX	8.4 J	6 / 14	<	0.48	U	<	0.49	U	<	0.48	U	1.9	0.55		4.3	0.5		8.4	0.95	J	5.6	1	
MNX	-	0 / 10	<	0.48	U	<	0.49	U	<	0.48	U	<	0.22	U		NA			NA			NA	
Nitrobenzene	1.3	1 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.22	U	<	0.21	U	<	0.39	U	<	0.8	U
RDX	19 J	6 / 14	<	0.48	U	<	0.49	U	0.83	0.48	P	0.2	0.22	J	5.6	0.21		19	5.6	J	9	0.8	
Tetryl	-	0 / 14	<	0.48	U	<	0.49	U	<	0.48	U	<	0.43	U	<	0.4	U	<	0.92	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-9
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA381-EXPLOSIVES

FIELD ID			CA381		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/22/2000		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 14	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.8	U
2,4,6-Trinitrotoluene	2.3 J	2 / 14	<	1.5	U
2,4-Dinitrotoluene	0.34 J	1 / 14	<	1.1	U
2,6-Dinitrotoluene	-	0 / 14	<	1.1	U
2-Amino-4,6-dinitrotoluene	23 J	4 / 14	10	1	
2-Nitrotoluene	-	0 / 14	<	1.1	U
3-Nitrotoluene	-	0 / 14	<	1.1	U
4-Amino-2,6-dinitrotoluene	22 J	4 / 14	9.2	1	
4-Nitrotoluene	-	0 / 14	<	1.1	U
HMX	8.4 J	6 / 14	6.6	0.8	
MNX	-	0 / 10		NA	
Nitrobenzene	1.3	1 / 14	<	0.8	U
RDX	19 J	6 / 14	11	0.8	
Tetryl	-	0 / 14	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-10
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA382-EXPLOSIVES

FIELD ID			CA382			CA382			CA382			CA382			CA382			CA382			CA382		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/11/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U
1,3-Dinitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
2,4,6-Trinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
2,4-Dinitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
2,6-Dinitrotoluene	-	0 / 14	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.47	U
2-Amino-4,6-dinitrotoluene	11	4 / 14	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.47	U
2-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
3-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
4-Amino-2,6-dinitrotoluene	2.8	4 / 14				<	1.4	U	<	1.4	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.47	U
4-Nitrotoluene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.47	U
HMX	5	8 / 14				0.26	0.8	J	0.47	0.8	J	0.71	0.8	J	0.24	0.41	J	<	0.48	U	<	0.47	U
MNX	-	0 / 10				<	0.8	U	<	0.8	U	<	0.8	U	<	2.1	U	<	0.48	U	<	0.47	U
Nitrobenzene	-	0 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.41	U	<	0.48	U	<	0.47	U
RDX	4.4	3 / 14				<	0.8	U	<	0.8	U	<	0.8	U	<	0.21	U	<	0.48	U	<	0.47	U
Tetryl	-	0 / 14				<	1.6	U	<	0.8	U	<	0.8	U	<	0.25	U	<	0.48	U	<	0.47	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-10
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA382-EXPLOSIVES

FIELD ID			CA382			CA382			CA382			CA382			CA382			CA382			CA382		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.32	U	<	0.24	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.32	U	<	0.16	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.32	U	<	0.20	U	<	0.8	U
2,4-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.62	U	<	0.16	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.62	U	<	0.62	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	11	4 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	0.7	0.62		2.4	0.25		11	0.8	
2-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.62	U	<	0.49	U	<	0.8	U
3-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.62	U	<	0.31	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	2.8	4 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	0.38	0.62	J	0.52	0.42		2.8	0.8	
4-Nitrotoluene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.65	U	<	1	U	<	1.0	U	<	0.8	U
HMX	5	8 / 14	0.93	0.48		<	0.48	U	<	0.48	U	<	0.51	U	<	0.78	U	0.81	0.68		3.8	1	U
MNX	-	0 / 10	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U		NA			NA			NA	
Nitrobenzene	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.32	U	<	0.28	U	<	0.8	U
RDX	4.4	3 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.21	U	<	0.32	U	0.64	0.40		4.4	0.8	
Tetryl	-	0 / 14	<	0.48	U	<	0.48	U	<	0.48	U	<	0.4	U	<	0.62	U	<	0.66	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-10
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA382-EXPLOSIVES

FIELD ID			CA382		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	3/22/2000		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 14	<	0.8	U
1,3-Dinitrobenzene	-	0 / 14	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 14	<	1.5	U
2,4-Dinitrotoluene	-	0 / 14	<	1.1	U
2,6-Dinitrotoluene	-	0 / 14	<	1.1	U
2-Amino-4,6-dinitrotoluene	11	4 / 14	7.3	1	
2-Nitrotoluene	-	0 / 14	<	1.1	U
3-Nitrotoluene	-	0 / 14	<	1.1	U
4-Amino-2,6-dinitrotoluene	2.8	4 / 14	2.4	1	
4-Nitrotoluene	-	0 / 14	<	1.1	U
HMX	5	8 / 14	5	0.8	
MNX	-	0 / 10		NA	
Nitrobenzene	-	0 / 14	<	0.8	U
RDX	4.4	3 / 14	2.7	0.8	
Tetryl	-	0 / 14	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-11
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA390-EXPLOSIVES

FIELD ID			CA390			CA390			CA390			CA390			CA390			CA390			CA390		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/7/2013			3/6/2012			3/9/2011			3/18/2010			3/11/2009			3/11/2008		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
1,3-Dinitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4,6-Trinitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,4-Dinitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
2,6-Dinitrotoluene	-	0 / 12	**Abandoned**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**2013**			<	0.8	U	<	0.8	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
2-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
3-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	1.4	U	<	1.4	U	<	0.8	U	<	0.2	U	<	0.48	U	<	0.48	U
4-Nitrotoluene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	1	U	<	0.48	U	<	0.48	U
HMX	0.93	11 / 12				0.54	0.8	J	0.56	0.8	J	0.52	0.8	J	0.62	0.4		0.77	0.48		0.93	0.48	
MNX	0.085 J	1 / 8				<	0.8	U	<	0.8	U	<	0.8	U	<	2	U	<	0.48	U	<	0.48	U
Nitrobenzene	-	0 / 12				<	0.8	U	<	0.8	U	<	0.8	U	<	0.4	U	<	0.48	U	<	0.48	U
RDX	2.9	12 / 12				0.66	0.8	J	1.2	0.8	J	1.4	0.8		0.89	0.2		2.1	0.48		2.9	0.48	
Tetryl	-	0 / 12				<	1.6	U	<	0.8	U	<	0.8	U	<	0.24	U	<	0.48	U	<	0.48	

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-11
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA390-EXPLOSIVES

FIELD ID			CA390			CA390			CA390			CA390			CA390			CA390			CA390		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			3/29/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																							
1,3,5-Trinitrobenzene	-	0 / 12				<	0.48	U				<	0.17	U	<	0.25	U	<	0.39	U	<	0.8	U
1,3-Dinitrobenzene	-	0 / 12				<	0.48	U				<	0.17	U	<	0.25	U	<	0.26	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 12				<	0.48	U				<	0.17	U	<	0.25	U	<	0.32	UJ	<	0.8	U
2,4-Dinitrotoluene	-	0 / 12				<	0.48	U				<	0.33	U	<	0.48	U	<	0.26	U	<	0.8	U
2,6-Dinitrotoluene	-	0 / 12	**No 2007 Sample**			<	0.48	U	**No 2005 Sample**			<	0.33	U	<	0.48	U	<	1.0	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	**Well Dry**			<	0.48	U	**Well Dry**			<	0.33	U	<	0.48	U	<	0.40	U	<	0.8	U
2-Nitrotoluene	-	0 / 12				<	0.48	U				<	0.33	U	<	0.48	U	<	0.79	U	<	0.8	U
3-Nitrotoluene	-	0 / 12				<	0.48	U				<	0.33	U	<	0.48	U	<	0.50	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0 / 12				<	0.48	U				<	0.33	U	<	0.48	U	<	0.68	U	<	0.8	U
4-Nitrotoluene	-	0 / 12				<	0.48	U				<	0.53	U	<	0.77	U	<	1.6	U	<	0.8	U
HMX	0.93	11 / 12				<	0.48	U				0.55	0.41		0.62	0.6		0.39	1.1	J	0.58	1	J
MNX	0.085 J	1 / 8				<	0.48	U				0.085	0.17	J		NA			NA			NA	
Nitrobenzene	-	0 / 12				<	0.48	U				<	0.17	U	<	0.25	U	<	0.45	U	<	0.8	U
RDX	2.9	12 / 12				1	0.48					0.89	0.17		2	0.25		1.2	0.65		1.5	0.8	
Tetryl	-	0 / 12				<	0.48	U				<	0.33	U	<	0.48	U	<	1.1	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-11
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA390-EXPLOSIVES

FIELD ID			CA390		
METHOD	Maximum	Detection	SW846 M8330		
COLLECT DATE	Detection	Frequency	6/15/2000		
			Result	RL	Qual
EXPLOSIVES (µg/L)					
1,3,5-Trinitrobenzene	-	0 / 12	<	0.8	U
1,3-Dinitrobenzene	-	0 / 12	<	0.8	U
2,4,6-Trinitrotoluene	-	0 / 12	<	1.5	U
2,4-Dinitrotoluene	-	0 / 12	<	1.1	U
2,6-Dinitrotoluene	-	0 / 12	<	1.1	U
2-Amino-4,6-dinitrotoluene	-	0 / 12	<	1	U
2-Nitrotoluene	-	0 / 12	<	1.1	U
3-Nitrotoluene	-	0 / 12	<	1.1	U
4-Amino-2,6-dinitrotoluene	-	0 / 12	<	1	U
4-Nitrotoluene	-	0 / 12	<	1.1	U
HMX	0.93	11 / 12	0.53	0.8	
MNX	0.085 J	1 / 8		NA	
Nitrobenzene	-	0 / 12	<	0.8	U
RDX	2.9	12 / 12	1.3	0.8	
Tetryl	-	0 / 12	<	1.3	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.1.5-12
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT SURFACE WATER SAMPLES-EXPLOSIVES

FIELD ID			LAGOON SW001			LAGOON SW002			LAGOON SW003			LAGOON SW004			LAGOON SW005		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	3/29/2001			3/29/2001			3/29/2001			3/29/2001			3/29/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																	
1,3,5-Trinitrobenzene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	0.82	3/5	<	0.8	U	<	0.8	U	0.19	0.8	J	0.82	0.8		0.59	0.8	J
2-Amino-4,6-dinitrotoluene	1.9	4/5	0.35	0.8	J	0.17	0.8	J	<	0.8	U	1.9	0.8		0.92	0.8	U
2-Nitrotoluene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
4-Nitrotoluene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
HMX	-	0/5	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
MNX				NA			NA			NA			NA			NA	
Nitrobenzene	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
RDX	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U
Tetryl	-	0/5	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U	<	0.8	U

Notes:
Lagoon sampling discontinued after 2001 LTM event.

< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
LTM = long-term monitoring
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

E.2 Natural Attenuation Parameters (on enclosed CD)

- E.2.1 OU1 ON-POST G00 WELLS
- E.2.2 OU1 ON-POST PZ WELLS
- E.2.3 OU1 OFF-POST CA WELLS
- E.2.4 OU1 OFF-POST NW WELLS
- E.2.5 OU1 OFF-POST FEEDLOT WELLS

E.2 Natural Attenuation Parameters

E.2.1 OU1 ON-POST G00 WELLS

WELL	TABLE
G0011	E.2.1-1
G0012	E.2.1-2
G0013	E.2.1-3
G0014	E.2.1-4
G0015	E.2.1-5
G0016	E.2.1-6
G0017	E.2.1-7
G0018	E.2.1-8
G0019	E.2.1-9
G0020	E.2.1-10
G0021	E.2.1-11
G0022	E.2.1-12
G0023	E.2.1-13
G0024	E.2.1-14
G0025	E.2.1-15
G0026	E.2.1-16
G0027	E.2.1-17
G0028	E.2.1-18
G0029	E.2.1-19
G0030	E.2.1-20
G0031	E.2.1-21
G0032	E.2.1-22
G0033	E.2.1-23
G0042	E.2.1-24
G0043	E.2.1-25
G0044	E.2.1-26
G0045	E.2.1-27
G0046	E.2.1-28
G0047	E.2.1-29
G0048	E.2.1-30
G0049	E.2.1-31
G0052	E.2.1-32
G0063	E.2.1-33
G0066/G0066R	E.2.1-34
G0067	E.2.1-35
G0068	E.2.1-36
G0070	E.2.1-37
G0075	E.2.1-38
G0076	E.2.1-39
G0077	E.2.1-40

WELL	TABLE
G0078	E.2.1-41
G0079	E.2.1-42
G0080	E.2.1-43
G0081	E.2.1-44
G0082	E.2.1-45
G0083	E.2.1-46
G0084	E.2.1-47
G0085	E.2.1-48
G0086	E.2.1-49
G0087	E.2.1-50
G0088	E.2.1-51
G0089	E.2.1-52
G0090	E.2.1-53
G0091	E.2.1-54
G0092	E.2.1-55
G0093	E.2.1-56
G0094	E.2.1-57
G0095	E.2.1-58
G0096	E.2.1-59
G0097	E.2.1-60
G0098	E.2.1-61
G0099	E.2.1-62
G0100	E.2.1-63
G0101	E.2.1-64
G0102	E.2.1-65
G0103	E.2.1-66
G0104	E.2.1-67
G0105	E.2.1-68
G0106	E.2.1-69
G0107	E.2.1-70
G0108	E.2.1-71
G0109	E.2.1-72
G0110	E.2.1-73
G0111	E.2.1-74
G0112	E.2.1-75
G0113	E.2.1-76
G0114	E.2.1-77
G0115	E.2.1-78
G0116	E.2.1-79
G0117	E.2.1-80

WELL	TABLE
G0118	E.2.1-81
G0119	E.2.1-82
G0120	E.2.1-83
G0121	E.2.1-84
G0122	E.2.1-85
G0123	E.2.1-86

TABLE E.2.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0011			G0011			G0011			G0011			G0011			G0011			G0011		
COLLECT DATE	None			3/11/2013			3/5/2012			3/3/2011			3/1/2010			3/6/2009			3/12/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.867	0.25		<	0.25	UJ	<	0.25	UJ	<	0.1	U	0.17	0.05		0.42	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	U	0.974	1	J	0.67	1	J	<	1	U	1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)				0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				1260	50		1200	25		1050	25		1200	250		1200	100		1100	100	
Dissolved Organic Carbon SM 9060A (mg/L)				4.44	1		3.54	1		4.06	1		4.3	1		4.5	1		5.5	1	
Alkalinity SM 2320B (mg/L)				400	1.25		400	1.25		402	1		410	5		450	8		440	4	
Methane RSK-175 (µg/L)				<	5	U	<	5	U	<	5	UJ	0.42	5	J	0.99	0.31		2.7	1.7	
Carbon Dioxide SM 2320B (mg/L)[1]				178	10		177.8	10		179	0.4		180	2.2		200	0.22		194	1.8	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0011			G0011			G0011			G0011			G0011			G0011			G0011		
COLLECT DATE	3/13/2007			3/29/2006			3/21/2005			3/16/2004			3/21/2003			3/21/2002			3/28/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.18	0.05		0.25	0.05		0.23	0.2		0.16	0.2	J	0.16	0.2	J	0.152	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	0.55	U	<	0.39	U	<	0.56	U	0.398	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	1	U	<	0.1	U	0.63	0.1		<	0.5	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.4	1		1.5	1		<	1	U
Sulfate USEPA 9056A (mg/L)	860	50		1100	100		1100	100		1100	100		1200	50		1100	50		951	50	
Dissolved Organic Carbon SM 9060A (mg/L)	3.5	1		5.5	1		5	1		4.4	1		4.7	1		4.2	1		<	5	U
Alkalinity SM 2320B (mg/L)	380	8		430	8		430	8		400	5		390	5		400	5		358	5	
Methane RSK-175 (µg/L)	2	0.87		5.5	0.87		3.1	0.87		<	2	U	<	2	U	<	2	U	1.4	1	
Carbon Dioxide SM 2320B (mg/L)[1]	170	0.88		190	0.88		190	0.1		176	1		172	1		176	1		158	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0011			G0011			G0011		
COLLECT DATE	3/20/2000			3/26/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	0.198	0.1		0.179	0.1		0.14	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.542	0.1		0.506	0.1		0.103	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	2	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	908	10		927	5		298	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	12.8	5		17.8	5	
Alkalinity SM 2320B (mg/L)	407	5		415	5		402	5	
Methane RSK-175 (µg/L)	<	2	U	4.09	1		3.44	1	
Carbon Dioxide SM 2320B (mg/L)[1]	179	2.2		183	2.2		177	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0012-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0012			G0012			G0012			G0012			G0012			G0012			G0012		
COLLECT DATE	None			3/11/2013			3/5/2012			3/7/2011			3/1/2010			3/6/2009			3/12/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.195	0.25	J	0.187	0.25	J	0.179	0.25	J	0.042	0.1	J	0.076	0.05		0.36	0.05	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			1.07	1	J	<	1	U	0.363	1	J	0.33	1	J	<	1	U	1.5	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	<	0.1	U	0.083	0.1	J	0.027	0.1	J	0.063	0.05		<	0.05	U
Sulfide SM 9034 (mg/L)				<	2	U	0.2	2	J	0.4	2	J	<	4	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				1240	50		974	25		853	25		840	100		550	50		1200	100	J
Dissolved Organic Carbon SM 9060A (mg/L)				5.11	1		3.9	1		4.36	1		3.3	1		3.7	1		4.7	1	
Alkalinity SM 2320B (mg/L)				405	1.25		370	1.25		415	1		430	5		460	8		440	4	
Methane RSK-175 (µg/L)				0.7	5	J	0.43	5	J	<	5	UJ	2.8	5	J	0.85	0.31	J	2.3	1.7	
Carbon Dioxide SM 2320B (mg/L)[1]				180	10		164.4	10		184	0.4		190	2.2		200	0.22		194	1.8	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0012-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0012			G0012			G0012			G0012			G0012			G0012			G0012		
COLLECT DATE	3/13/2007			3/29/2006			3/22/2005			3/17/2004			3/24/2003			3/25/2002			3/27/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.12	0.05		0.097	0.05		0.16	0.05		<	0.2	U	0.14	0.2	J	1.9	0.4	J	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	0.3	0.2		<	0.36	U	<	0.8	U	1.3	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	0.13	0.05		0.41	0.05		<	1	U	<	0.2	U	0.12	0.1		<	0.5	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.5	1	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	1200	100	J	1300	100	J	1100	100	J	1100	40		1200	50		1000	50		900	100	
Dissolved Organic Carbon SM 9060A (mg/L)	4.9	1		5.4	1		5.1	1		5.1	1		4.6	1		4.6	2		<	5	U
Alkalinity SM 2320B (mg/L)	430	8		420	8		420	8		410	5		450	5		450	5		390	5	
Methane RSK-175 (µg/L)	2.1	0.87		1.5	0.87		0.82	0.87	J	<	2	U	<	2	U	<	2	U	<	5.2	U
Carbon Dioxide SM 2320B (mg/L)[1]	190	0.88		180	0.88		180	0.1		180	1		198	1		200	1		172	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0012-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0012			G0012			G0012		
COLLECT DATE	3/17/2000			3/29/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.347	0.1		0.364	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	896	5		671	10		656	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	51.2	5		12.2	5	
Alkalinity SM 2320B (mg/L)	412	5		440	5		422	5	
Methane RSK-175 (µg/L)	3.5	1		8.91	1		4.94	1	
Carbon Dioxide SM 2320B (mg/L)[1]	181	2.2		194	2.2		186	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0013			G0013			G0013			G0013			G0013			G0013			G0013			G0013		
COLLECT DATE	None			3/12/2013			None			3/13/2008			3/14/2007			3/28/2006			3/21/2005					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)				0.715	0.25					0.55	0.05		0.17	0.05		0.33	0.05		0.48	0.05				
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			1.22	1		**Not Sampled**			1.7	1		<	1	U	<	1	U	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	**in 2009, 2010, 2011,**			<	0.05	U	29	1	J	<	0.05	U	<	0.05	U			
Sulfide SM 9034 (mg/L)				<	2	U	**2012**			<	1	U	<	1	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)				1060	50					860	100		820	50		860	100		980	50				
Dissolved Organic Carbon SM 9060A (mg/L)				5.48	1					4.8	1		4.2	1		4.8	1		5.1	1				
Alkalinity SM 2320B (mg/L)				380	1.25					380	4		400	8		370	8		380	8				
Methane RSK-175 (µg/L)				<	5	U				1	1.7	J	0.7	0.87	J	1.9	0.87		1.4	0.87				
Carbon Dioxide SM 2320B (mg/L)[1]				169	10					167	1.8		170	0.88		160	0.88		170	0.1				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0013			G0013			G0013			G0013			G0013			G0013			G0013		
COLLECT DATE	3/17/2004			3/21/2003			3/25/2002			3/28/2001			3/17/2000			3/29/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.41	0.2		0.44	0.2		1.1	0.4		0.587	0.1		0.473	0.1		0.369	0.1		0.363	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.34	U	<	0.67	U	0.98	0.4		1.01	0.1		1	0.1		0.703	0.1		0.221	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	0.2	UJ	<	0.1	U	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	1.5	1	J	<	1	U	<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	970	40		1100	50		1100	50		1120	50		1260	10		1270	10		1020	10	
Dissolved Organic Carbon SM 9060A (mg/L)	5.1	1		5.4	1		5.4	1		<	5	U	<	5	U	6.8	5		16.1	5	
Alkalinity SM 2320B (mg/L)	350	5		380	5		370	5		363	5		409	5		427	5		374	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	4	1		5.1	1		6.71	1		4.06	1	
Carbon Dioxide SM 2320B (mg/L)[1]	154	1		167	1		160	1		160	5		180	2.2		188	2.2		165	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0014			G0014			G0014			G0014			G0014			G0014			G0014		
COLLECT DATE	None			3/8/2013			3/5/2012			None			3/14/2007			3/29/2006			3/23/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				2.45	0.25		0.188	0.25	J				0.089	0.05		0.19	0.05		0.49	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.952	1	J	3.48	1		**Not Sampled**			<	1	U	1.2	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			1.12	0.1		<	0.1	U	**in 2008, 2009, 2010,**			<	0.05	U	0.072	0.05		0.12	0.05	
Sulfide SM 9034 (mg/L)				<	2	U	0.2	2	J	**2011**			<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				892	25		999	25					1300	100		900	100		650	100	
Dissolved Organic Carbon SM 9060A (mg/L)				4.77	1		<	1	U				4.8	1		5.1	1		4.3	1	
Alkalinity SM 2320B (mg/L)				418	1.25		390	1.25					420	8		380	8		380	8	
Methane RSK-175 (µg/L)				<	5	U	<	5	U				0.93	0.87		0.87	0.87		1.1	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]				186	10		173.3	1.25					190	0.88		170	0.88		170	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0014			G0014			G0014			G0014			G0014			G0014			G0014		
COLLECT DATE	3/17/2004			3/21/2003			3/25/2002			3/28/2001			3/17/2000			3/29/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.5	0.2		1.6	0.2	J	<	0.63	U	0.544	0.1		0.223	0.1		0.115	0.1		0.199	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.5	0.2		1.6	0.2		0.84	0.4		1.09	0.1		0.347	0.1		0.461	0.1		0.169	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	0.2	UJ	0.11	0.1		<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	1.1	1		<	1	U	<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	630	40		980	50		750	50		726	50		483	5		496	10		277	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.7	1		5.4	1		4.5	1		<	5	U	13	5		7	5		12	5	
Alkalinity SM 2320B (mg/L)	340	5		430	5		450	5		375	5		391	5		436	5		432	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	2.5	1		10	1		59.8	5		21.7	1	
Carbon Dioxide SM 2320B (mg/L)[1]	150	1		189	1		198	1		165	5		172	2.2		192	2.2		190	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0015			G0015			G0015			G0015			G0015			G0015			G0015			G0015		
COLLECT DATE	None			3/12/2013			3/8/2012			3/9/2011			3/1/2010			3/11/2009			3/13/2008					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)				0.281	0.25	J	<	0.25	U	<	0.25	UJ	<	0.1	UJ	<	0.05	U	0.21	0.05	J			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	UJ	<	1	UJ	0.34	1	J	<	1	UJ	1.3	1	J			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			0.223	0.1		0.035	0.1	J	0.073	0.1	J	<	0.1	U	<	0.5	U	<	0.05	U			
Sulfide SM 9034 (mg/L)				0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)				392	10		433	25		527	25		460	50		400	20		480	100	J			
Dissolved Organic Carbon SM 9060A (mg/L)				2.51	1		3.28	1		3.43	1		3.1	1		3.3	1	J	3.7	1				
Alkalinity SM 2320B (mg/L)				368	1.25	J	305	1.25		340	1		320	5		280	20		330	4				
Methane RSK-175 (µg/L)				0.37	5	J	<	5	U	<	5	UJ	<	5	UJ	0.49	0.31		<	1.7	U			
Carbon Dioxide SM 2320B (mg/L)[1]				164	10		135.6	10		151	0.4		140	2.2		120	0.22		145	0.88				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0015			G0015			G0015			G0015			G0015			G0015			G0015		
COLLECT DATE	3/14/2007			3/28/2006			3/17/2005			3/23/2004			3/20/2003			3/26/2002			3/27/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	0.07	0.05		0.2	0.2	J	<	0.2	U	<	0.2	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.4	1		<	0.39	U	0.38	0.2		0.37	0.4	J	0.422	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.14	0.05	J	0.32	0.05		0.15	0.05		0.61	0.1	J	<	0.2	U	0.27	0.1		<	0.5	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1	1		<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	710	100	J	620	50	J	660	50	J	580	40		790	50	J	710	50		722	100	
Dissolved Organic Carbon SM 9060A (mg/L)	3.9	1		4.1	1		4.2	1		3.8	1		5.3	1		4.8	1		<	5	U
Alkalinity SM 2320B (mg/L)	420	8		410	8		450	8		410	5		490	5		140	5		410	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	0.57	0.87	J	<	2	U	<	2	U	<	2	U	0.7	1	J
Carbon Dioxide SM 2320B (mg/L)[1]	180	0.88		180	0.88		200	0.1		180	1		216	1		62	1		180	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0015			G0015			G0015		
COLLECT DATE	3/20/2000			3/29/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	0.129	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.385	0.1		0.315	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	960	10		571	10		610	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.4	5		8.8	5		14.9	5	
Alkalinity SM 2320B (mg/L)	455	5		456	5		423	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	1.55	1	
Carbon Dioxide SM 2320B (mg/L)[1]	200	2.2		201	2.2		186	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0016			G0016			G0016			G0016			G0016			G0016			G0016		
COLLECT DATE	None			None			3/8/2013			3/7/2012			3/9/2011			3/3/2010			3/11/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.944	0.25		<	0.25	U	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	U	<	1	UJ	<	1	UJ	0.27	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2016**			**in 2014, 2015, 2016**			1.71	0.1		2.4	0.1		2.1	0.1		1.2	0.1		0.51	0.5	
Sulfide SM 9034 (mg/L)							0.2	2	J	0.4	2	J	0.4	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							333	10		422	25		527	25		410	100		860	50	J
Dissolved Organic Carbon SM 9060A (mg/L)							3.4	1		4	1		3.86	1		3.6	1		3	1	
Alkalinity SM 2320B (mg/L)							410	1.25		410	1.25		355	1		400	5		380	20	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	0.22	0.31	J
Carbon Dioxide SM 2320B (mg/L)[1]							182	10		182.2	10		158	0.4		170	2.2		170	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0016			G0016			G0016			G0016			G0016			G0016			G0016		
COLLECT DATE	3/13/2008			3/14/2007			3/28/2006			3/17/2005			3/17/2004			3/20/2003			3/26/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.19	0.05		<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	0.05	0.2	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.1	1		<	1	U	<	1	U	1.3	1		0.34	0.2		0.45	0.2		0.84	0.4	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.53	0.05		1.2	1	J	0.36	0.05		0.47	0.05		1.9	0.1		3.9	0.1		2.2	0.1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	610	100		460	50		620	50		490	50		400	20		380	25		420	25	
Dissolved Organic Carbon SM 9060A (mg/L)	4.5	1		3.7	1		4.3	1		4	1		3.3	1		3.4	1		3.8	1	
Alkalinity SM 2320B (mg/L)	400	4		360	8		390	8		390	8		380	5		260	5		360	5	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	176	0.88		160	0.88		170	0.88		170	0.1		167	1		114	1		160	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0016			G0016			G0016			G0016		
COLLECT DATE	3/27/2001			3/21/2000			3/31/1999			6/26/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.416	0.1		0.358	0.1		0.433	0.1		0.221	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.69	0.5		<	1	U	1.66	1		2.08	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	399	25		39.9	1		390	5		298	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	18.4	5		13.1	5		10.9	5	
Alkalinity SM 2320B (mg/L)	350	5		391	5		392	5		384	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	154	5		172	2.2		172	2.2		169	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0017					G0017					G0017					G0017				
COLLECT DATE	5/25/2021					6/11/2020					6/5/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.12		0.022	0.05	0.1	<	U	0.022	0.05	0.1	0.13		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.71	J	0.69	1	1	0.83	J	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	6.4		0.79	1.9	4	8.0		0.79	1.9	4	8.0		0.79	1.9	4	8.8		0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	540		5.2	13	25	340		5.2	15	25	380	J	5.2	15	25	330		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	7.6		0.35	0.8	1	7.1		0.35	1	1	7.7		0.16	0.5	1	5.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	440		3.1	6.4	10	410		3.1	10	10	480		3.1	10	10	500		1.1	3.2	5
Methane RSK-175 (µg/L)	1500		0.63	2	5	8500		1.9	6	15	5400		0.63	2	5	8200	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	196		3.1	6.4	10	182		3.1	10	10	213.3		3.1	10	10	222.2		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0017					G0017					G0017					G0017		
COLLECT DATE	3/24/2017					8/8/2016					8/6/2015					8/7/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.18		0.022	0.05	0.1	0.14	0.022	0.050	0.10		0.088	0.022	0.05	0.1	J	0.15	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.1		0.18	0.5	1	0.63	0.18	0.50	1.0	J	0.45	0.18	0.5	1	J	0.66	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.23	0.019	0.050	0.10		<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	13		0.79	1.9	4	14	0.79	1.9	4.0		24	0.79	1.9	4		21	4	
Sulfate USEPA 9056A (mg/L)	190		2.3	5	50	350	2.3	5.0	50		410	1.2	2.5	25		330	5	J
Dissolved Organic Carbon SM 9060A (mg/L)	5.5		0.16	0.5	1	6.6	0.16	0.50	1.0		12	0.16	0.5	1		36	1	
Alkalinity SM 2320B (mg/L)	490		1.1	3.2	5	450	1.1	3.2	5.0		460	1.1	3.2	5		510	5	
Methane RSK-175 (µg/L)	13000		0.44	1.6	10	9600	0.22	0.80	5.0		7800	0.22	0.8	5		10000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	217.8		1.1	3.2	5	200	1.1	3.2	5.0		204.4	1.1	3.2	5		226.7	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0017			G0017			G0017			G0017			G0017			G0017			G0017		
COLLECT DATE	3/8/2013			3/7/2012			3/7/2011			3/3/2010			3/11/2009			3/13/2008			3/14/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.42	0.25		<	0.25	U	0.204	0.25	J	1.7	0.1		<	0.05	U	0.071	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.615	1	J	2.1	1		1.72	1		1.1	1		<	1	U	1.1	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.024	0.1	J	0.043	0.1	J	0.249	0.1		0.16	0.1		0.85	0.05		0.23	0.05		0.081	0.05	
Sulfide SM 9034 (mg/L)	22	2		56	2		12	2		34	4		<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	544	25		439	25		73.8	1		45	5		760	50		580	100		810	100	
Dissolved Organic Carbon SM 9060A (mg/L)	58.4	1		673	1		864	1		220	6.2		4.8	1		4.9	1		4.9	1	
Alkalinity SM 2320B (mg/L)	462	1.25		760	1.25		575	1		660	5		360	20		390	4		400	8	
Methane RSK-175 (µg/L)	2400	100		3800	250		2100	100		4900	50		1.5	0.31		<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	205	10		337.8	10		256	0.4		290	2.2		160	0.22		172	0.88		180	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0017			G0017			G0017			G0017			G0017			G0017			G0017		
COLLECT DATE	3/16/2006			3/17/2005			3/23/2004			3/20/2003			3/26/2002			3/27/2001			3/21/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.06	0.05		0.34	0.2		<	0.2	U	<	0.2	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	1.5	1		<	0.61	U	0.39	0.2		0.65	0.4		0.289	0.1		0.309	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.25	U	0.9	0.05		2	0.1		1.5	0.1		1.4	0.1		0.976	0.5		1.12	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	610	100		420	50		220	20		400	25		260	10		202	5		181	2	
Dissolved Organic Carbon SM 9060A (mg/L)	4.5	1		4.2	1		3.3	1		4.4	1		3.8	1		<	5	U	11.1	5	
Alkalinity SM 2320B (mg/L)	390	8		390	8		350	5		370	5		370	5		350	5		358	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	0.63	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	170	0.88		170	0.1		154	1		163	1		160	1		154	5		158	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0017			G0017		
COLLECT DATE	3/31/1999			6/26/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.521	0.1		0.198	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.37	1		2.54	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	273	5		329	5	
Dissolved Organic Carbon SM 9060A (mg/L)	14.3	5		8.3	5	
Alkalinity SM 2320B (mg/L)	474	5		398	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	209	2.2		175	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0018			G0018			G0018			G0018			G0018			G0018			G0018		
COLLECT DATE	None			None			3/14/2013			3/8/2012			3/9/2011			3/3/2010			3/11/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							1.02	0.25		1.5	0.25		0.621	0.25		0.5	0.1		0.72	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.984	1	U	<	1	U	1.14	1		0.48	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016**			6.52	0.1		6.31	0.1		5.32	0.1		6.1	0.1		0.56	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			<	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							37.3	1		535	25		484	25		480	100		480	50	
Dissolved Organic Carbon SM 9060A (mg/L)							3.45	1		4	1		4.27	1		4	1		4.3	1	
Alkalinity SM 2320B (mg/L)							350	1.25		375	1.25		345	1		390	5		440	20	
Methane RSK-175 (µg/L)							<	5	J	2.2	5	J	<	5	UJ	0.74	5	J	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							156	10		166.7	10		153	0.4		170	2.2		190	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0018			G0018			G0018			G0018			G0018			G0018			G0018		
COLLECT DATE	3/14/2008			3/15/2007			3/28/2006			3/16/2005			3/17/2004			3/18/2003			3/22/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	3.4	0.1		3.3	0.05		1.4	0.05		0.77	0.05		0.37	0.2		<	0.45	U	0.23	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.1	1	J	3.2	1		1.8	1		2.3	1		1.1	0.2		0.97	0.2	J	0.44	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.3	0.05		1.7	1		2.7	0.1		2.4	0.05		4.5	1		3.4	0.1		3.1	0.1	
Sulfide SM 9034 (mg/L)	<	1	U	3	1		<	1	U	<	1	U	<	1	U	<	1	U	1.6	1	
Sulfate USEPA 9056A (mg/L)	520	100		460	100		470	50		450	50		380	20		420	0.4		360	25	
Dissolved Organic Carbon SM 9060A (mg/L)	4	1		4	1		4.3	1		4	1		3.7	1		3.4	1		3.5	1	
Alkalinity SM 2320B (mg/L)	410	4		420	8		430	8		440	8		420	5		390	5		410	5	
Methane RSK-175 (µg/L)	1.1	1.7	J	1.6	0.87		1.1	0.87		0.69	0.87	J	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	180	0.88		190	0.88		190	0.88		190	0.1		185	1		172	1		180	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0018-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0018			G0018			G0018			G0018		
COLLECT DATE	3/26/2001			3/20/2000			3/29/1999			6/18/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.109	0.1		<	0.1	U	<	0.1	U	0.09	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.35	0.1		0.268	0.1		0.212	0.1		0.04	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.36	0.5		2.52	1		2.32	1		2.55	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	302	5		328	2		182	10		195	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	8.5	5		5.2	5	
Alkalinity SM 2320B (mg/L)	323	5		351	5		300	5		289	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	142	5		154	2.2		132	2.2		127	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0019			G0019			G0019			G0019			G0019			G0019			G0019		
COLLECT DATE	None			None			3/19/2013			3/14/2012			3/10/2011			3/15/2010			3/12/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.498	1	J	<	1	UJ	0.415	1	J	0.24	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2014**			**in 2014**			0.803	0.1		0.419	0.1		0.324	0.1		0.58	0.1	J	0.81	0.05	
Sulfide SM 9034 (mg/L)							0.2	2	J	0.6	2	J	0.2	2	J	2.1	1		<	1	U
Sulfate USEPA 9056A (mg/L)							240	10		298	10		300	10		110	25		220	20	J
Dissolved Organic Carbon SM 9060A (mg/L)							19.8	1		3.59	1		4.47	1		1.9	1		3.6	1	
Alkalinity SM 2320B (mg/L)							420	1.25		350	1.25		425	1		350	5		340	20	
Methane RSK-175 (µg/L)							160	5		210	10		160	5		<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							187	10		155.6	10		189	0.4		160	2.2		150	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0019			G0019			G0019			G0019			G0019			G0019			G0019		
COLLECT DATE	3/19/2008			3/14/2007			3/28/2006			3/17/2005			3/17/2004			3/25/2003			3/26/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.15	0.05		<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	0.92	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.3	1		<	0.26	U	<	0.2	U	<	0.4	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.45	0.05		1.3	1	J	2.1	0.05		1.2	0.05		<	0.1	U	0.79	0.1		0.73	0.1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	190	20		170	20		130	10		76	10		75	2		78	5		94	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.9	1		2.4	1		2.6	1		2.1	1		<	1.9	U	1.8	1		2	1	
Alkalinity SM 2320B (mg/L)	340	4		350	8		340	8		330	8		320	5		400	5		400	5	
Methane RSK-175 (µg/L)	2.4	1.7		<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	150	0.88		160	0.88		150	0.88		140	0.1		141	1		176	1		180	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0019			G0019			G0019			G0019		
COLLECT DATE	3/26/2001			3/21/2000			3/31/1999			6/22/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.277	0.1		0.226	0.1		0.257	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.492	0.5	J	<	1	U	<	1	U	0.89	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	135	2.5		105	2		114	5		104	1	
Dissolved Organic Carbon SM 9060A (mg/L)	7.1	5		6.3	5		9.1	5		9.4	5	
Alkalinity SM 2320B (mg/L)	393	5		356	5		410	5		368	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	173	5		157	2.2		180	2.2		162	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0020			G0020			G0020			G0020			G0020			G0020			G0020		
COLLECT DATE	None			None			3/19/2013			3/8/2012			3/9/2011			3/16/2010			3/12/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.671	0.25		<	0.25	U	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.07	1		<	1	UJ	<	1	UJ	0.14	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2014**			**in 2014**			1.29	0.1		0.528	0.1		0.253	0.1		<	0.1	U	0.31	0.05	
Sulfide SM 9034 (mg/L)							0.401	2	J	0.4	2	J	0.2	2	J	2.2	1		<	1	U
Sulfate USEPA 9056A (mg/L)							137	10		174	10		189	5		160	25		93	20	
Dissolved Organic Carbon SM 9060A (mg/L)							1.81	1		2.31	1		2.54	1		1.6	1		2.7	1	
Alkalinity SM 2320B (mg/L)							325	1.25		280	1.25		285	1		290	5		330	20	
Methane RSK-175 (µg/L)							<	5	U	1.8	5	J	<	5	UJ	1.6	5	J	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							144	10		124.4	10		127	0.4		130	2.2		140	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0020			G0020			G0020			G0020			G0020			G0020			G0020		
COLLECT DATE	3/19/2008			3/14/2007			3/17/2006			3/17/2005			3/17/2004			3/24/2003			3/25/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	0.05	0.05		<	0.2	U	<	0.2	U	2.4	0.4	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	UJ	1.4	1		<	0.12	U	<	0.25	U	2.2	0.4	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.19	U	1	0.1		0.45	0.1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.9	1		<	1	U
Sulfate USEPA 9056A (mg/L)	140	10		130	20		120	20		120	10		120	4		78	5		110	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.2	1		2.1	1		1.8	1		2.2	1		<	1.8	U	<	1.6	U	2.1	1	
Alkalinity SM 2320B (mg/L)	280	2		300	8		280	8		280	8		250	5		330	5		290	5	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	0.4	0.87	J	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	123	0.88		130	0.88		120	0.88		120	0.1		110	1		145	1		130	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0020			G0020			G0020			G0020		
COLLECT DATE	3/27/2001			3/21/2000			3/31/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.086	0.1		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.121	0.1		0.257	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.5	U	<	1	U	<	1	U	0.76	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	106	5		73.5	2		68.9	5		67.6	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	7.6	5		10.7	5	
Alkalinity SM 2320B (mg/L)	247	5		291	5		333	5		281	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1.71	U	1.35	1	
Carbon Dioxide SM 2320B (mg/L)[1]	109	5		128	2.2		147	2.2		124	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0021			G0021			G0021			G0021			G0021			G0021			G0021		
COLLECT DATE	None			None			3/14/2013			3/13/2012			3/11/2011			3/17/2010			3/12/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							2.19	0.1		3.25	0.25		2.46	0.25		2.2	0.1	J	4.3	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			2.32	0.25		3.83	1	J	2.67	1		2.6	1		4.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016**			1.61	1.25		<	0.1	U	<	0.1	UJ	0.063	0.1	J	0.081	0.05	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	1		0.4	2	J	0.2	2	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)							25.3	2	J	154	5		137	5		150	25		190	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.92	1		2.69	1		2.46	1		<	1	U	2.6	1	
Alkalinity SM 2320B (mg/L)							344	10		300	1.25		345	1		360	5		410	20	
Methane RSK-175 (µg/L)							110	1	J	110	5		290	5		3500	50		900	5.1	J
Carbon Dioxide SM 2320B (mg/L)[1]							153	1		133.3	10		153	0.4		160	2.2		180	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0021			G0021			G0021			G0021			G0021			G0021			G0021		
COLLECT DATE	3/18/2008			3/15/2007			3/15/2006			3/16/2005			3/17/2004			3/18/2003			3/21/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	3.2	0.1		4.2	0.25		3.1	0.25		3.3	0.1		1.4	0.2		0.83	0.2		1.6	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.7	1		4	1		3	1	J	3.4	1		2	2		1.1	0.2		2.2	0.4	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	5.4	1	J	7	0.25	J	7.4	0.25		8.2	1		8.8	0.5	J	5	0.5	
Sulfide SM 9034 (mg/L)	4	1		<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.6	1	
Sulfate USEPA 9056A (mg/L)	82	10		160	20		110	10		88	10		76	2		64	5		65	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.5	1		2.6	1		2	1		2.3	1		<	2	U	2	1		1.9	1	
Alkalinity SM 2320B (mg/L)	470	4		330	8		300	8		280	8		250	5		260	5		280	5	
Methane RSK-175 (µg/L)	2900	8.5		<	0.87	U	<	0.87	U	0.45	0.87	J	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	206.8	0.88		150	0.88		130	0.88		120	0.1		110	1		114	1		120	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0021			G0021			G0021			G0021		
COLLECT DATE	3/22/2001			3/21/2000			3/31/1999			6/18/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	1.55	0.1		1.19	0.1		<	0.1	U	0.796	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.3	0.2		1.33	0.1		1.72	0.1		0.485	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.43	0.5		<	1	U	<	1	U	0.85	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	61.5	5		44.7	2		52.8	5		58.3	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	13.6	5		8.2	5	
Alkalinity SM 2320B (mg/L)	253	5		269	5		288	5		287	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	28.2	1	
Carbon Dioxide SM 2320B (mg/L)[1]	111	5		118	2.2		127	2.2		126	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0022					G0022					G0022					G0022				
COLLECT DATE	5/25/2021					6/15/2020					6/11/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.3		0.019	0.05	0.1	8.8		0.019	0.05	0.1	12		0.095	0.25	0.5	18		0.04	0.1	0.2
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	13		10	10	10
Sulfate USEPA 9056A (mg/L)	130		1	2.5	5	110		1	3	5	89		1	3	5	72		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.35	0.8	1	3		0.35	1	1	2.6		0.16	0.5	1	2.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	330		3.1	6.4	10	330		3.1	10	10	340		3.1	10	10	290		1.1	3.2	5
Methane RSK-175 (µg/L)	6100		0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	44	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	147		3.1	6.4	10	146.7		3.1	10	10	151.1		3.1	10	10	128.9		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0022					G0022					G0022					G0022		
COLLECT DATE	8/31/2017					8/16/2016					8/12/2015					8/8/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.050	0.10	U	0.06	0.022	0.05	0.1	J	0.042	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.50	1.0	U	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	18		0.095	0.25	0.5	13	0.19	0.50	1.0		1.5	0.019	0.05	0.1		3	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4.0	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	72		0.23	0.5	5	64	0.23	0.50	5.0		58	0.23	0.5	5		48	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.1		0.16	0.5	1	3.1	0.16	0.50	1.0		1.8	0.16	0.5	1		2	1	
Alkalinity SM 2320B (mg/L)	320		1.1	3.2	5	300	1.1	3.2	5.0		240	1.1	3.2	5		270	5	
Methane RSK-175 (µg/L)	150	J	0.22	0.8	5	220	0.22	0.80	5.0		310	0.22	0.8	5		390	5	
Carbon Dioxide SM 2320B (mg/L)[1]	142.2		1.1	3.2	5	133.3	1.1	3.2	5.0		106.7	1.1	3.2	5		120	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0022			G0022			G0022			G0022			G0022			G0022			G0022		
COLLECT DATE	3/14/2013			3/14/2012			3/15/2011			3/17/2010			3/13/2009			3/13/2008			3/15/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.705	0.25		<	0.25	UJ	<	0.25	UJ	0.063	0.1	J	0.085	0.05		0.12	0.05	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.61	0.1		6.84	0.1		5.43	0.1		21	0.5		4.2	0.5		6.6	0.5		7.4	1	J
Sulfide SM 9034 (mg/L)	0.2	2	J	0.6	2	J	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	51.4	1		60.2	1		56.9	1		53	25		52	20		65	10		40	10	J
Dissolved Organic Carbon SM 9060A (mg/L)	2.62	1		2.88	1		2.92	1		2.2	1		2.6	1		2.5	1		2.1	1	
Alkalinity SM 2320B (mg/L)	315	1.25		240	1.25		275	1		270	5		280	20		230	4		230	8	
Methane RSK-175 (µg/L)	440	25		620	25		1900	50		5800	50		1000	5.1	J	<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	140	10		106.7	10		122	0.4		120	2.2		120	0.22		101	1.8		100	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0022			G0022			G0022			G0022			G0022			G0022			G0022		
COLLECT DATE	3/15/2006			3/16/2005			3/17/2004			3/18/2003			3/21/2002			3/22/2001			3/22/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.17	0.2	J	0.13	0.2	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	1.4	1		1.2	0.2		<	0.2	U	<	0.58	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.2	0.25		3.6	0.1		4.4	1		4.6	0.2	J	5.8	0.5		9.72	0.5		3.8	5	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	34	10		28	10		26	2		25	5		25	5		29.2	5		24.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.8	1		2	1		<	1.8	U	1.8	1		2.3	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	220	8		210	8		200	5		210	5		210	5		210	5		215	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	97	0.88		92	0.1		88	1		92	1		92	1		92.4	5		94.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0022			G0022		
COLLECT DATE	4/1/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.106	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.85	1		3.29	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	34.6	5		26.6	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.6	5		22.1	5	
Alkalinity SM 2320B (mg/L)	224	5		193	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	98.6	2.2		84.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0023					G0023					G0023					G0023				
COLLECT DATE	5/21/2021					6/13/2020					6/4/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	8.4		0.044	0.1	0.2	6.1		0.044	0.1	0.2	5.1		0.044	0.1	0.2	7		0.04	0.1	0.2
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.6		0.69	1	1	5.7		0.69	1	1	7.1		0.69	1	1	10		0.3	0.83	2
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	82		1	2.5	5	110		1	3	5	65		5.2	15	25	53		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.9		0.35	0.8	1	4.6		0.35	1	1	6.1		0.16	0.5	1	8.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	360		3.1	6.4	10	260		3.1	10	10	330		3.1	10	10	360		1.1	3.2	5
Methane RSK-175 (µg/L)	7400		0.63	2	5	9900		1.9	6	15	4300		1.9	6	15	20000	J	0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	160		3.1	6.4	10	115.6		3.1	10	10	146.7		3.1	10	10	160		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0023					G0023					G0023					G0023		
COLLECT DATE	3/29/2017					8/15/2016					8/17/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	6.6		0.11	0.25	0.5	4.2	0.022	0.050	0.10		2	0.044	0.1	0.2		1.9	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	7.6		0.18	0.5	1	6.6	0.18	0.50	1.0		3	0.18	0.5	1		2.5	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.019	0.019	0.050	0.10	J	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4.0	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	11		0.23	0.5	5	23	0.23	0.50	5.0		22	0.23	0.5	5		16	5	
Dissolved Organic Carbon SM 9060A (mg/L)	13		0.16	0.5	1	16	0.16	0.50	1.0		13	0.16	0.5	1		14	1	
Alkalinity SM 2320B (mg/L)	480		1.1	3.2	5	520	1.1	3.2	5.0		450	1.1	3.2	5		430	5	
Methane RSK-175 (µg/L)	21000		0.44	1.6	10	26000	0.65	2.4	15		12000	0.22	0.8	5		22000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	213.3		1.1	3.2	5	231.1	1.1	3.2	5.0		200	1.1	3.2	5		191.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0023			G0023			G0023			G0023			G0023			G0023			G0023		
COLLECT DATE	3/14/2013			3/13/2012			3/10/2011			3/17/2010			3/16/2009			3/18/2008			3/15/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.53	0.25		0.898	0.25		1.05	0.25		0.14	0.1		0.069	0.05		0.21	0.05		0.12	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.72	1	J	2.4	1		2.03	1		0.78	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	<	0.1	UJ	0.249	0.1		2.1	0.1		0.96	0.05		1.1	0.05		4	1	
Sulfide SM 9034 (mg/L)	<	2	U	0.6	2	J	0.2	2	J	5.9	1		<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	18.1	1		52.8	1		42.2	1		43	5		81	20		87	10		77	10	
Dissolved Organic Carbon SM 9060A (mg/L)	7.12	1		4.23	1		6.06	1		3.8	1		2.5	1		2.9	1		1.8	1	
Alkalinity SM 2320B (mg/L)	354	1.25		180	1.25		305	1		280	5		260	20		250	2		190	8	
Methane RSK-175 (µg/L)	5200	500		3400	100		7400	500		3100	50		14	0.31		1.1	1.7	J	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	157	10		80	10		136	0.4		120	2.2		120	0.22		110	0.88		84	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0023			G0023			G0023			G0023			G0023			G0023			G0023		
COLLECT DATE	3/15/2006			3/16/2005			3/18/2004			3/18/2003			3/21/2002			3/23/2001			3/21/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.12	0.05		0.19	0.05		0.53	0.2		0.51	0.2		0.74	0.2		1.89	0.1		1.42	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	1.6	1		1	0.2		<	0.72	U	0.84	0.2		2.28	0.2		1.49	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.9	0.25		4	0.1		4.6	1		9.5	0.5	J	6.7	0.5		3.44	0.5		3.94	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.4	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	62	10		48	10		42	2		44	5		39	5		35.4	5		30.1	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.7	1		2	1		2	1		2.6	1		2.3	1		<	5	U	9.9	5	
Alkalinity SM 2320B (mg/L)	190	8		180	8		180	5		210	5		230	5		175	5		206	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.88		79	0.1		79	1		92	1		100	1		77	5		90.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0023			G0023		
COLLECT DATE	4/2/1999			6/18/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.227	0.1		0.738	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.519	0.1		0.165	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.58	1		2.47	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	35.8	5		28.3	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)	16.6	5		6.3	5	
Alkalinity SM 2320B (mg/L)	258	5		136	5	
Methane RSK-175 (µg/L)	<	1	U	1.53	1	
Carbon Dioxide SM 2320B (mg/L)[1]	114	2.2		59.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0024					G0024					G0024					G0024				
COLLECT DATE	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.8		0.019	0.05	0.1	26		0.095	0.25	0.5	8.8		0.019	0.05	0.1	55		0.19	0.5	1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	54		1	2.5	5	150		2.1	6	10	14		1	3	5	190		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.3		0.35	0.8	1	5.5		0.35	1	1	3.5		0.16	0.5	1	8.2		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	220		3.1	6.4	10	290		3.1	10	10	67		3.1	10	10	280		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	98		3.1	6.4	10	129		3.1	10	10	30		3.1	10	10	124		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0024					G0024					G0024					G0024		
COLLECT DATE	4/1/2017					8/9/2016					8/12/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.05	0.1	U	0.044	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	39		0.095	0.25	0.5	21	0.19	0.5	1		17	0.19	0.5	1		18	0.2	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	0.8	4	J
Sulfate USEPA 9056A (mg/L)	190		0.23	0.5	5	97	0.23	0.5	5		100	0.23	0.5	5		86	5	
Dissolved Organic Carbon SM 9060A (mg/L)	7.5		0.16	0.5	1	5.4	0.16	0.5	1		6.2	0.16	0.5	1		4.7	1	
Alkalinity SM 2320B (mg/L)	340		1.1	3.2	5	150	1.1	3.2	5		210	1.1	3.2	5		220	5	
Methane RSK-175 (µg/L)	<	U	0.22	0.8	5	<	0.22	0.8	5	U	<	0.22	0.8	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	151					67	1.1	3.2	5		93.33	1.1	3.2	5		97.78	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0024			G0024			G0024			G0024			G0024			G0024			G0024		
COLLECT DATE	3/13/2013			3/12/2012			3/14/2011			3/16/2010			3/13/2009			3/12/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.236	0.25	J	0.308	0.25		<	0.25	UJ	0.048	0.1	J	<	0.05	U	0.2	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.547	1	J	<	1	UJ	<	1	U	1.3	1		<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	25.9	0.1		28.7	0.1		27.3	0.1		4.1	0.1		15	0.5		18	0.5		29	1	J
Sulfide SM 9034 (mg/L)	<	2	U	0.6	2	J	0.2	2	J	1.8	1		<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	80.4	5		85.8	2		70.8	1		17	5		39	20		51	10		35	20	
Dissolved Organic Carbon SM 9060A (mg/L)	4.63	1		6.5	1		6.89	1		12	1		5.4	1		4	1		3.4	1	
Alkalinity SM 2320B (mg/L)	390	1.25		300	1.25		225	1		99	5		210	20		280	4		270	8	
Methane RSK-175 (µg/L)	<	5	U	16	5		<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	173	10		133.3	10		100	0.4		43	2.2		92	0.22		123	1.8		120	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0024			G0024			G0024			G0024			G0024			G0024			G0024		
COLLECT DATE	3/14/2006			3/15/2005			3/16/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.13	0.2	J	0.15	0.2	J	<	1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	0.99	0.2		<	0.45	U	1	0.4		<	1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	13	0.5		12	0.5		11	1		15	0.5		12	0.5		7.74	0.5		10.2	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	42	20		34	10		32	2		43	5		34	1		20.2	5		22.4	2	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3	1		3	1		3.5	1		3.8	1		3.9	1		<	5	U	12.8	5	
Alkalinity SM 2320B (mg/L)	250	8		190	8		200	5		310	5		300	5		100	5		144	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.88		84	0.1		88	0.4		136	1		130	1		44	5		63.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0024			G0024		
COLLECT DATE	4/1/1999			6/30/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.088	0.1	J	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	16.4	1		19.2	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	37.2	5		31.1	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.8	5		11.5	5	
Alkalinity SM 2320B (mg/L)	218	5		169	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	95.9	2.2		74.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0025-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0025			G0025			G0025			G0025			G0025			G0025			G0025		
COLLECT DATE	None			3/11/2013			3/5/2012			None			3/12/2007			3/13/2006			3/15/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.25	U	<	0.25	UJ				<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	U	**Not Sampled**			<	1	U	<	1	U	1	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			1.53	0.1		2.86	0.1		**in 2008, 2009, 2010,**			4.9	1	J	0.94	0.05		1.4	0.05	
Sulfide SM 9034 (mg/L)				0.2	2	J	0.4	2	J	**2011**			<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				19.1	1		19.2	1					23	10		27	10		25	10	
Dissolved Organic Carbon SM 9060A (mg/L)				2.14	1		<	1	U				1.2	1		1.4	1		1.4	1	
Alkalinity SM 2320B (mg/L)				85	1.25		85	1.25					110	8		110	8		100	8	
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]				38	10		37.78	1.25					49	0.88		49	0.88		44	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0025-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0025			G0025			G0025			G0025			G0025			G0025			G0025		
COLLECT DATE	3/15/2004			3/17/2003			3/20/2002			3/21/2001			3/16/2000			3/30/1999			6/26/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	<	0.2	U	<	0.32	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.48	0.2		<	0.45	U	0.46	0.4		<	0.1	U	0.119	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.4	1		4.2	0.1		3.2	0.1		4.33	0.5		3.95	1		3.63	1		4.19	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	24	2		26	5		21	5		21.2	5		15.7	0.2		15.8	2		15.3	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	1.5	U	<	1.6	U	2.1	1		<	5	U	<	5	U	<	5	U	10.7	5	
Alkalinity SM 2320B (mg/L)	100	5		130	5		92	5		72.5	5		96	5		106	5		107	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	44	1.1		57	1		40	1		31.9	5		42.2	2.2		46.6	2.2		47.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0026-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0026			G0026			G0026			G0026			G0026			G0026			G0026		
COLLECT DATE	None			3/2/2010			3/9/2009			3/13/2008			3/13/2007			3/27/2006			3/22/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.1	U	<	0.05	U	0.18	0.05		<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			1	1		<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2011**			6.5	0.1		13	0.5		10	0.5		15	1	J	14	0.5		7.2	0.5	
Sulfide SM 9034 (mg/L)				<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				1600	250		1900	100		1500	200		1300	100		1200	100		1100	100	
Dissolved Organic Carbon SM 9060A (mg/L)				5.9	1		5.6	1		6.7	1		6	1		7.1	1		6.7	1	
Alkalinity SM 2320B (mg/L)				430	5		470	8		440	4		460	8		460	8		440	8	
Methane RSK-175 (µg/L)				<	5	U	0.24	0.31	J	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]				190	2.2		210	0.22		194	1.8		200	0.88		200	0.88		190	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0026-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0026			G0026			G0026			G0026			G0026			G0026			G0026		
COLLECT DATE	3/23/2004			3/21/2003			3/22/2002			3/28/2001			3/16/2000			3/29/1999			6/24/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	<	0.2	U	0.11	0.2	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1	0.2		<	0.39	U	0.55	0.2		0.724	0.1		0.699	0.1		0.564	0.1		0.32	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.2	1		7	0.2	J	8.6	0.5		5.7	0.5		1.66	1		1.7	1		5.37	1	
Sulfide SM 9034 (mg/L)	<	1	U	1.4	1		<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	1000	100		1200	50		1200	50		1120	50		988	10		1150	10		1180	10	
Dissolved Organic Carbon SM 9060A (mg/L)	5.9	1		6.6	1		7.3	1		6	5		10	5		11.5	5		18.7	5	
Alkalinity SM 2320B (mg/L)	360	5		390	5		430	5		398	5		371	5		424	5		421	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	<	1	U	4.6	1		<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	158	1		172	1		190	1		175	5		163	2.2		187	2.2		185	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0027-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0027			G0027			G0027			G0027			G0027			G0027			G0027		
COLLECT DATE	None			3/2/2010			3/9/2009			3/13/2008			3/13/2007			3/27/2006			3/22/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.057	0.1	J	0.12	0.05		0.39	0.05		0.49	0.05		0.27	0.05		0.41	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.36	1	J	<	1	U	1.6	1		<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2011**			<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	
Sulfide SM 9034 (mg/L)				<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				1300	250		1700	100		1200	100		1100	100		1000	100		1000	100	
Dissolved Organic Carbon SM 9060A (mg/L)				6	1		5.1	1		6.3	1		5.5	1		6.2	1		6	1	
Alkalinity SM 2320B (mg/L)				400	5		400	8		410	4		400	8		380	8		390	8	
Methane RSK-175 (µg/L)				<	5	U	<	0.31	U	<	1.7	U	0.85	0.87	J	0.52	0.87	J	0.73	0.87	J
Carbon Dioxide SM 2320B (mg/L)[1]				180	2.2		180	0.22		180	0.88		170	0.88		170	0.88		170	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0027-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0027			G0027			G0027			G0027			G0027			G0027			G0027		
COLLECT DATE	3/23/2004			3/21/2003			3/22/2002			3/28/2001			3/16/2000			3/29/1999			6/24/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.52	U	0.27	0.2		0.19	0.2	J	<	0.1	U	0.507	0.1		0.831	0.1		0.914	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.87	0.2		<	0.49	U	0.55	0.2		0.579	0.1		0.965	0.1		1.28	0.1		1.05	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	0.2	UJ	<	0.1	U	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	1100	100		1200	50		1100	50		1140	50		1110	10		1260	10		1180	10	
Dissolved Organic Carbon SM 9060A (mg/L)	6	1		6.2	1		6.5	1		8.6	5		8	5		5.6	5		18.1	5	
Alkalinity SM 2320B (mg/L)	400	5		420	5		440	5		431	5		404	5		423	5		375	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	1.1	1		0.65	1	J	<	1.01	U	2.09	1	
Carbon Dioxide SM 2320B (mg/L)[1]	176	1		185	1		190	1		190	5		178	2.2		186	2.2		165	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0028			G0028			G0028			G0028			G0028			G0028			G0028		
COLLECT DATE	None			None			3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.36	1		<	1	U	0.454	1	J	0.59	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2016**			**in 2014, 2015, 2016**			0.258	0.1		<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.05	U
Sulfide SM 9034 (mg/L)							0.2	2	J	0.4	2	J	1	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							1380	50		1390	25		1440	50		1300	250		1300	100	
Dissolved Organic Carbon SM 9060A (mg/L)							8.49	1		7.15	1		7.67	1		6.8	1		6	1	
Alkalinity SM 2320B (mg/L)							485	1.25		475	1.25		545	1		470	5		460	20	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	0.71	5	J	0.37	0.31	
Carbon Dioxide SM 2320B (mg/L)[1]							216	10		211.1	10		242	0.4		200	2.2		200	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0028			G0028			G0028			G0028			G0028			G0028			G0028		
COLLECT DATE	3/13/2008			3/13/2007			3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/25/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.32	0.05		0.08	0.05		<	0.05	U	<	0.05	U	<	0.2	U	0.27	0.2		2.4	0.4	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.5	1		<	1	U	<	1	U	<	1	U	<	0.49	U	<	0.29	U	0.8	0.4	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	1	U	0.81	0.1		<	0.1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	1200	100		1100	100		960	100		920	100		1000	100		1000	50	J	1100	50	
Dissolved Organic Carbon SM 9060A (mg/L)	7.1	1		6.1	1		6.7	1		6.6	1		6.3	1		6.3	1		6.4	1	
Alkalinity SM 2320B (mg/L)	470	4		440	8		420	8		460	8		420	5		420	5		450	5	
Methane RSK-175 (µg/L)	<	1.7	U	0.62	0.87	J	<	0.87	U	0.48	0.87	J	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	207	0.88		200	0.88		180	0.88		200	0.1		185	1		185	1		200	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0028			G0028			G0028			G0028		
COLLECT DATE	3/30/2001			3/15/2000			3/29/1999			6/24/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.14	0.1		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.385	0.1		0.571	0.1		0.37	0.1		0.273	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	976	50		1110	10		1090	10		1140	10	
Dissolved Organic Carbon SM 9060A (mg/L)	10	5		6.8	5		<	5	U	18.9	5	
Alkalinity SM 2320B (mg/L)	390	5		439	5		223	5		399	5	
Methane RSK-175 (µg/L)	0.71	1	J	<	1	U	<	1	U	1.07	1	
Carbon Dioxide SM 2320B (mg/L)[1]	172	5		193	2.2		98.1	2.2		176	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0029-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0029			G0029			G0029			G0029			G0029			G0029			G0029		
COLLECT DATE	None			3/23/2005			3/16/2004			3/25/2003			3/20/2002			3/26/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	0.28	0.2		<	0.2	U	<	0.2	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	0.35	U	<	0.37	U	1.1	0.4		0.434	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			4	0.25		1.1	0.1		4.5	0.2	J	7.7	0.5		<	2	U	3.92	1	
Sulfide SM 9034 (mg/L)				<	1	U	0.6	1	J	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				100	20		85	2		100	5		91	5		65.5	2		76	2	
Dissolved Organic Carbon SM 9060A (mg/L)				2.7	1		3.1	1		2.5	1		3	1		12	5		12.4	5	
Alkalinity SM 2320B (mg/L)				190	8		250	5		220	5		180	5		157	5		198	5	
Methane RSK-175 (µg/L)				<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				84	0.1		110	0.6		97	1		79	1		69.1	2.2		87.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0030-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0030			G0030			G0030			G0030			G0030		
COLLECT DATE	None			3/23/2005			3/16/2004			3/25/2003			3/20/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	0.15	0.2	J	<	0.2	U	<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	UJ	0.89	0.2		<	0.34	U	0.52	0.4	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			13	0.5	J	8.1	1		5.7	0.2	J	5.2	0.5	
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				89	20		77	2		92	5		100	5	
Dissolved Organic Carbon SM 9060A (mg/L)				2.1	1		2.3	1		2.6	1		2.6	1	
Alkalinity SM 2320B (mg/L)				190	8		180	5		230	5		210	5	
Methane RSK-175 (µg/L)				0.43	0.87	J	7.6	2		<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]				84	0.1		79	0.7		101	1		92	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0030-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0030			G0030			G0030			G0030		
COLLECT DATE	3/23/2001			3/16/2000			3/26/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.146	0.1		0.464	0.1		0.176	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.219	0.1		0.564	0.1		0.417	0.1		0.302	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.21	0.5		2	1		4.76	2		3.28	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	95.6	5		86.7	2		72.1	5		56.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	5	5		11.4	5		13.3	5	
Alkalinity SM 2320B (mg/L)	185	5		215	5		197	5		161	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	81.4	5		94.4	2.2		86.7	2.2		70.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0031-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0031			G0031			G0031			G0031			G0031			G0031			G0031		
COLLECT DATE	None			3/22/2005			3/16/2004			3/25/2003			3/20/2002			3/26/2001			3/16/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	<	0.2	U	<	0.2	U	0.13	0.2	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	0.95	0.2		0.22	0.2		0.43	0.4		<	0.1	U	0.136	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			6.6	0.25		8.9	1		11	0.5		10	0.5		4.87	0.5		9.29	1	
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				95	10		69	2		56	5		61	5		98.6	2.5		65.5	2	
Dissolved Organic Carbon SM 9060A (mg/L)				3.9	1		2.6	1		1.8	1		2.6	1		<	5	U	19.7	5	
Alkalinity SM 2320B (mg/L)				200	8		190	5		210	5		180	5		165	5		182	5	
Methane RSK-175 (µg/L)				<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				88	0.1		84	0.4		92	1		79	1		72.6	5		80	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0031-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0031			G0031		
COLLECT DATE	3/26/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.93	2		6.68	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	68.8	2		60.4	2	
Dissolved Organic Carbon SM 9060A (mg/L)	12.3	5		7.9	5	
Alkalinity SM 2320B (mg/L)	185	5		164	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	81.4	2.2		72.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0032-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0032			G0032			G0032			G0032/74			G0032/74			G0032/74			G0032/74		
COLLECT DATE	None			3/11/2013			3/5/2012			None			3/13/2007			3/27/2006			3/22/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.25	U	<	0.25	UJ				<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	UJ	**Not Sampled**			<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	19.5	0.1		**in 2008, 2009, 2010,**			23	1	J	17	0.5		17	0.5	
Sulfide SM 9034 (mg/L)				0.2	2	J	0.4	2	J	**2011**			<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				901	25		928	25					910	50		830	50		730	50	
Dissolved Organic Carbon SM 9060A (mg/L)				6.24	1		5.74	1					5.7	1		6.3	1		5.7	1	
Alkalinity SM 2320B (mg/L)				410	1.25		405	1.25					410	8		410	8		400	8	
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]				182	10		180	1.25					180	0.88		180	0.88		180	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0032-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0032/74			G0032			G0032			G0032			G0032			G0032			G0032		
COLLECT DATE	3/16/2004			3/20/2003			3/21/2002			3/30/2001			3/13/2000			3/26/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	<	0.2	U	0.17	0.2	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.2	0.2		0.44	0.2		<	0.58	U	0.184	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	14	1		17	1	J	16	0.5		16.8	0.5		15.2	1		13.5	2		14	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	660	40		710	50		610	1		738	50		724	10		798	5		693	10	
Dissolved Organic Carbon SM 9060A (mg/L)	5.2	1		5.4	1		5.9	1		<	5	U	6.1	5		15.4	5		6.8	5	
Alkalinity SM 2320B (mg/L)	380	5		380	5		400	5		383	5		371	5		350	5		350	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	<	1	UJ	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	167	0.3		167	1		176	1		169	5		163	2.2		154	2.2		154	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0033-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0033			G0033			G0033			G0033			G0033			G0033			G0033			G0033		
COLLECT DATE	None			3/11/2013			3/5/2012			None			3/15/2007			3/27/2006			3/22/2005					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)				<	0.25	U	<	0.25	UJ				<	0.05	U	<	0.05	U	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.202	1	J	<	1	U	**Not Sampled**			<	1	U	<	1	U	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			1.54	0.1		46.1	0.1		**in 2008, 2009, 2010,**			44	2.5		44	2.5		32	1				
Sulfide SM 9034 (mg/L)				0.2	2	J	0.4	2	J	**2011**			<	1	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)				65.1	1		68.4	1					64	20		65	20		58	50				
Dissolved Organic Carbon SM 9060A (mg/L)				3.85	1		2.44	1					3	1		3.2	1		2.9	1				
Alkalinity SM 2320B (mg/L)				195	1.25		190	1.25					210	8		180	8		200	8				
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U			
Carbon Dioxide SM 2320B (mg/L)[1]				87	10		84.44	1.25					92	0.88		77	0.88		88	0.1				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0033-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0033			G0033			G0033			G0033			G0033			G0033			G0033		
COLLECT DATE	3/16/2004			3/20/2003			3/20/2002			3/30/2001			3/14/2000			3/26/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.11	0.2	J	0.29	0.2	J	0.25	0.2		0.108	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.99	0.2		0.38	0.2	J	<	0.59	U	0.138	0.1		0.128	0.1	J	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	37	1		39	1		33	2		33.4	1		37.8	10		34.1	2		38.2	4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	59	2		64	2		59	4		48.8	5		51.9	2		56.8	2		49	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		2.6	1		3	1		9.8	5		<	5	U	12.2	5		9.6	5	
Alkalinity SM 2320B (mg/L)	180	5		200	5		190	5		168	5		186	5		183	5		175	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	<	1	UJ	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	1		88	1		84	1		73.9	5		81.8	2.2		80.5	2.2		77	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0042-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0042			G0042			G0042			G0042			G0042			G0042			G0042		
COLLECT DATE	None			3/8/2013			3/13/2008			3/13/2007			3/29/2006			3/18/2005			3/23/2004		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				1.14	0.25		0.15	0.05		<	0.05	U	<	0.05	U	0.07	0.05		<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.067	1	J	1.1	1		<	1	U	<	1	U	1	1		<	0.51	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			2.9	0.1		0.62	0.05		2.7	1	J	3.1	0.1		3.7	0.1		2.8	0.1	
Sulfide SM 9034 (mg/L)				<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				336	10		460	100		250	20		300	50		270	50		310	20	
Dissolved Organic Carbon SM 9060A (mg/L)				2.96	1		3.3	1		2	1		2.6	1		2.9	1		2.6	1	
Alkalinity SM 2320B (mg/L)				523	1.25		360	4		370	8		370	8		420	8		360	5	
Methane RSK-175 (µg/L)				<	5	U	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]				232	10		158	1.8		160	0.88		160	0.88		180	0.1		158	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0042-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0042			G0042			G0042			G0042			G0042			G0042		
COLLECT DATE	3/20/2003			3/21/2002			3/28/2001			3/17/2000			3/30/1999			6/24/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	0.06	0.2	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.29	0.2		<	0.6	U	2.96	0.1		0.717	0.1		0.822	0.1		0.203	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.1	0.1		3.8	0.1		1.7	0.5		2.69	1		1.08	1		1.15	1	
Sulfide SM 9034 (mg/L)	<	1	U	1.6	1		<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	430	100		370	25		529	50		605	5		617	5		408	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.7	1		3.7	1		9.1	5		<	5	U	<	5	U	17.1	5	
Alkalinity SM 2320B (mg/L)	370	5		440	5		388	5		449	5		414	5		339	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	1	U	<	1	U	<	1	U	1.7	1	
Carbon Dioxide SM 2320B (mg/L)[1]	163	1		190	1		171	5		198	2.2		182	2.2		149	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0043-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0043			G0043			G0043			G0043			G0043			G0043		
COLLECT DATE	None			3/13/2007			3/28/2006			3/18/2005			3/23/2004			3/20/2003		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	U	1.1	1		<	0.6	U	<	0.2	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2009**			0.071	0.05	J	0.4	0.05		0.46	0.05		1.5	0.1		3.2	0.1	
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				130	20		140	10		130	10		190	10		270	10	
Dissolved Organic Carbon SM 9060A (mg/L)				2.1	1		2.5	1		2.6	1		2.1	1		2.4	1	
Alkalinity SM 2320B (mg/L)				390	8		390	8		350	8		310	5		350	5	
Methane RSK-175 (µg/L)				<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]				170	0.88		170	0.88		150	0.1		136	1		154	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0043-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0043			G0043			G0043			G0043			G0043		
COLLECT DATE	3/22/2002			3/28/2001			3/17/2000			3/30/1999			6/24/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.13	0.2	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.25	0.2		0.374	0.1		0.272	0.1		0.37	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.4	0.1		1.58	0.5		1.61	1		2.55	1		2.28	1	
Sulfide SM 9034 (mg/L)	1.6	1		<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	270	10		322	50		297	2		365	5		300	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.7	1		<	5	U	<	5	U	<	5	U	18.4	5	
Alkalinity SM 2320B (mg/L)	370	5		370	5		412	5		442	5		383	5	
Methane RSK-175 (µg/L)	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	160	1		163	5		181	2.2		194	2.2		169	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0044					G0044					G0044					G0044				
COLLECT DATE	5/24/2021					6/10/2020					6/4/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.9		0.019	0.05	0.1	2.6		0.019	0.05	0.1	9.4	J	0.038	0.1	0.2	5.9		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	700		5.2	13	25	170		1	3	5	650		10	30	50	570		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	4.9		0.35	0.8	1	2.5		0.35	1	1	5.1		0.16	0.5	1	20		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	490		3.1	6.4	10	430		3.1	10	10	590		3.1	10	10	520		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	UJ	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	218		3.1	6.4	10	191		3.1	10	10	262		3.1	10	10	231		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0044					G0044					G0044					G0044		
COLLECT DATE	3/24/2017					8/8/2016					8/5/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.05	0.1	U	0.039	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.19	0.18	0.5	1	J	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	3		0.019	0.05	0.1	1.8	0.019	0.05	0.1		2.7	0.019	0.05	0.1		7.6	0.1	
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	600		1.2	2.5	25	300	2.3	5	50		270	1.2	2.5	25		400	25	
Dissolved Organic Carbon SM 9060A (mg/L)	4.5		0.16	0.5	1	3.4	0.16	0.5	1		3.5	0.16	0.5	1		3.6	1	
Alkalinity SM 2320B (mg/L)	500		1.1	3.2	5	390	1.1	3.2	5		450	1.1	3.2	5		540	5	
Methane RSK-175 (µg/L)	<	U	0.22	0.8	5	<	0.22	0.8	5	U	<	0.22	0.8	5	UJ	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	222.2		1.1	3.2	5	173.3	1.1	3.2	5		200	1.1	3.2	5		240	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0044			G0044			G0044			G0044			G0044			G0044			G0044		
COLLECT DATE	3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009			3/17/2008			3/13/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U	0.22	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.178	1	J	<	1	U	<	1	UJ	0.28	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.95	0.1		2.39	0.1		1.66	0.1		1.1	0.1		0.3	0.05		0.099	0.05		0.082	0.05	
Sulfide SM 9034 (mg/L)	0.401	2	J	0.6	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	713	25		579	25		555	25		390	100		170	50		190	20		320	50	
Dissolved Organic Carbon SM 9060A (mg/L)	5.31	1		3.68	1		4.88	1		3	1		3.5	1	J	4.2	1		2.8	1	
Alkalinity SM 2320B (mg/L)	480	1.25		410	1.25		455	1		430	5		450	20		470	4		480	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U	6.6	1.7		<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	213	10		182.2	1.25		202	0.4		190	2.2		200	0.22		207	0.88		210	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0044			G0044			G0044			G0044			G0044			G0044			G0044		
COLLECT DATE	3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/25/2002			3/30/2001			3/15/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	<	0.4	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.1	0.2		0.46	0.2		0.5	0.4		<	0.1	U	0.979	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.4	0.05		2.2	0.05		5	1		4.6	0.2	J	4.2	0.1		2.31	0.5		2.53	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	UJ
Sulfate USEPA 9056A (mg/L)	250	50		150	50		310	20		460	25		370	25		463	50		416	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.1	1		3.3	1		4.4	1		5.2	1		4.8	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	430	8		530	8		490	5		490	5		540	5		475	5		505	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	0.67	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	190	0.88		230	0.1		216	1		216	1		240	1		209	5		222	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0044			G0044		
COLLECT DATE	3/29/1999			6/24/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.473	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.63	1		1.8	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	380	10		286	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	17	5	
Alkalinity SM 2320B (mg/L)	475	5		471	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	209	2.2		207	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0045					G0045					G0045					G0045				
COLLECT DATE	5/25/2021					6/11/2020					6/6/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	2.1		0.022	0.05	0.1	3.4		0.022	0.05	0.1	3.9		0.022	0.05	0.1	3.1		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2		0.69	1	1	3.3		0.69	1	1	4		0.69	1	1	4.6		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1300		10	25	50	1200		10	30	50	1000	J	10	30	50	1100		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	6		0.35	0.8	1	5.1		0.35	1	1	5.5		0.16	0.5	1	5.2		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	470		3.1	6.4	10	420		3.1	10	10	440		3.1	10	10	410		1.1	3.2	5
Methane RSK-175 (µg/L)	0.79	J	0.63	2	5	2.8	J	0.63	2	5	1.7	J	0.63	2	5	3.3		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	209		3.1	6.4	10	187		3.1	10	10	196		3.1	10	10	182		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0045					G0045					G0045					G0045		
COLLECT DATE	3/24/2017					8/8/2016					8/15/2015					8/7/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	3.6		0.022	0.05	0.1	3.6	0.022	0.05	0.1	J	9.6	0.11	0.25	0.5		6.7	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.6		0.18	0.5	1	2.6	0.18	0.5	1		4.9	0.18	0.5	1	J	4.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.042	0.019	0.05	0.1	J	<	0.019	0.05	0.1	U	0.45	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	1100		2.3	5	50	1100	2.3	5	50		1100	2.3	5	50		1100	50	
Dissolved Organic Carbon SM 9060A (mg/L)	5.6		0.16	0.5	1	5.1	0.16	0.5	1		5.2	0.16	0.5	1		5.2	1	
Alkalinity SM 2320B (mg/L)	420		1.1	3.2	5	410	1.1	3.2	5		390	1.1	3.2	5		370	5	
Methane RSK-175 (µg/L)	3	J	0.22	0.8	5	2	0.22	0.8	5	J	1.8	0.22	0.8	5	J	3	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	186.7		1.1	3.2	5	182.2	1.1	3.2	5		173.3	1.1	3.2	5		164.4	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0045			G0045			G0045			G0045			G0045			G0045			G0045		
COLLECT DATE	3/8/2013			3/7/2012			3/7/2011			3/3/2010			3/11/2009			3/14/2008			3/14/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	5.47	0.25		5.25	0.25		8.22	0.25		7.3	0.1		12	0.5		16	0.5		11	0.5	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	6.77	1		7.71	1		7.64	1		8.3	1		11	1		19	1		11	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.032	0.1	J	<	0.1	U	<	0.1	UJ	0.03	0.1	J	<	0.05	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	0.2	2	J	0.8	2	J	0.4	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	1040	50		1020	50		1030	50		1100	250		1200	100	J	880	100		750	100	
Dissolved Organic Carbon SM 9060A (mg/L)	5.88	1		5.77	1		5.5	1		5	1		5	1		2.5	1		<	1	U
Alkalinity SM 2320B (mg/L)	419	1.25		410	1.25		372	1		410	5		430	20		400	4		400	8	
Methane RSK-175 (µg/L)	<	5	U	1	5	J	<	5	UJ	18	5		4.3	0.31		3.1	1.7		3.1	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]	186	10		182.2	1.25		165	0.4		180	2.2		190	0.22		176	0.88		180	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0045			G0045			G0045			G0045			G0045			G0045			G0045		
COLLECT DATE	3/16/2006			3/17/2005			3/18/2004			3/20/2003			3/26/2002			3/27/2001			3/21/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	9.4	0.25		6.8	0.5		4.8	0.2		5.5	0.4		1.2	0.2		<	0.1	U	0.561	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	10	1	J	8.3	1		5.2	0.4		5.1	1		3	0.4		0.621	0.1		0.871	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	0.17	0.1		<	0.5	UJ	<	0.1	U	<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	790	100		820	50		860	40		870	50		<	0.2	U	773	100		720	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.8	1		5.4	1		5.6	1		5.4	1		5.3	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	390	8		390	8		370	5		410	5		390	5		388	5		383	5	
Methane RSK-175 (µg/L)	1.7	0.87		2.2	0.87		<	2	U	<	2	U	<	2	U	2	1		<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	170	0.88		170	0.1		163	1		180	1		170	1		171	5		169	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0045			G0045		
COLLECT DATE	3/31/1999			6/26/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	1.4	0.1		2.67	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.75	0.1		2.56	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	786	5		686	5	
Dissolved Organic Carbon SM 9060A (mg/L)	12	5		12.2	5	
Alkalinity SM 2320B (mg/L)	438	5		399	5	
Methane RSK-175 (µg/L)	<	1.73	U	1.97	1	
Carbon Dioxide SM 2320B (mg/L)[1]	193	2.2		176	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0046			G0046			G0046			G0046			G0046			G0046			G0046		
COLLECT DATE	None			3/12/2013			3/7/2012			3/7/2011			3/12/2010			3/9/2009			3/14/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.324	0.25		0.177	0.25	J	<	0.25	UJ	0.044	0.1	J	<	0.05	U	0.14	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.065	1	J	1.59	1		0.52	1	J	<	1	U	<	1	U	1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			2.25	0.1		2.04	0.1		3.75	0.1		1.8	0.1		0.98	0.05		1.4	0.05	
Sulfide SM 9034 (mg/L)				<	2	U	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				363	10		498	10		26.1	1		640	100		760	20		430	100	
Dissolved Organic Carbon SM 9060A (mg/L)				4.12	1		4.92	1		5.14	1		4.1	1		4.6	1		4.2	1	
Alkalinity SM 2320B (mg/L)				488	1.25		470	1.25	J	458	1		400	5		450	20		360	4	
Methane RSK-175 (µg/L)				<	5	U	<	5	UJ	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U
Carbon Dioxide SM 2320B (mg/L)[1]				217	10		208.9	1.25	J	204	0.4		170	2.2		200	0.22		158	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0046			G0046			G0046			G0046			G0046			G0046			G0046		
COLLECT DATE	3/15/2007			3/28/2006			3/18/2005			3/23/2004			3/19/2003			3/25/2002			3/27/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	<	0.4	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.3	1		<	0.2	U	<	0.27	U	0.43	0.4		0.301	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.6	1	J	1.2	0.05		2.4	0.05		2	0.1		1.9	0.1		2.6	0.1		1.44	0.4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.6	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	460	50		290	20		190	10		99	2		160	10		220	10		363	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4	1		4	1		4.2	1		2.1	1		2.6	1		3.4	1		<	5	U
Alkalinity SM 2320B (mg/L)	340	8		350	8		380	8		400	5		410	5		450	5		413	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	150	0.88		150	0.88		170	0.1		176	1		180	1		200	1		182	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0046-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0046			G0046			G0046		
COLLECT DATE	3/20/2000			3/30/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.455	0.1		0.941	0.1		0.108	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.47	1		1.76	1		1.79	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	394	2		501	5		357	5	
Dissolved Organic Carbon SM 9060A (mg/L)	22.3	5		5.2	5		15.2	5	
Alkalinity SM 2320B (mg/L)	518	5		585	5		473	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	228	2.2		257	2.2		208	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0047			G0047			G0047			G0047			G0047			G0047			G0047		
COLLECT DATE	None			None			3/19/2013			3/8/2012			3/9/2011			3/16/2010			3/12/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.427	0.25		<	0.25	UJ	<	0.25	U	0.028	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.6	1	J	<	1	UJ	0.249	1	J	0.23	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2014**			**in 2014**			0.424	0.1	J	0.35	0.1		0.208	0.1		<	0.1	U	0.2	0.05	
Sulfide SM 9034 (mg/L)							0.2	2	J	0.4	2	J	0.4	2	J	4.3	1		<	1	U
Sulfate USEPA 9056A (mg/L)							153	10		211	10		264	10		210	25		230	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.33	1		2.99	1		2.83	1		1.9	1		2.6	1	
Alkalinity SM 2320B (mg/L)							375	1.25		355	1.25		290	1		310	5		330	20	
Methane RSK-175 (µg/L)							<	5	U	4.5	5	J	<	5	UJ	0.38	5	J	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							167	10		157.8	1.25		129	0.4		140	2.2		140	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0047			G0047			G0047			G0047			G0047			G0047			G0047		
COLLECT DATE	3/19/2008			3/15/2007			3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/22/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.2	0.05		<	0.05	U	<	0.05	U	<	0.05	U	0.15	0.2	J	<	0.2	U	0.09	0.2	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.1	1		0.37	0.2		<	0.24	U	0.29	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.61	0.05		1.4	1		1.4	0.05		1.9	0.05		2	0.1		0.92	0.1		1	0.1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.3	1		2.6	1	
Sulfate USEPA 9056A (mg/L)	160	10		86	50		110	20		77	10		77	2		110	5		120	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.3	1		1.8	1		1.5	1		1.6	1		<	1.7	U	<	1.7	U	2	1	
Alkalinity SM 2320B (mg/L)	270	2		290	8		290	8		300	8		270	5		290	5		290	5	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	119	0.88		130	0.88		130	0.88		130	0.1		119	1		128	1		130	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0047			G0047			G0047			G0047		
COLLECT DATE	3/26/2001			3/20/2000			3/31/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.259	0.1		0.227	0.1		0.376	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.579	0.5		<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	143	2.5		112	2		106	1		102	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	5.6	5		8.2	5		9.6	5	
Alkalinity SM 2320B (mg/L)	258	5		268	5		325	5		266	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	114	5		118	2.2		143	2.2		117	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0048					G0048					G0048					G0048				
COLLECT DATE	5/21/2021					6/13/2020					6/4/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.290		0.022	0.05	0.1	0.085	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	0.05	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	37		0.19	0.5	1.0	38		0.19	0.5	1.0	27	J	0.095	0.25	0.5	48		0.19	0.5	1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	62		2.1	5	10	130		1	3	5	56		5.2	15	25	79	J	0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3		0.35	0.8	1	4.9		0.35	1	1	1.8		0.16	0.5	1	3.3		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	140		3.1	6.4	10	170		3.1	10	10	51		3.1	10	10	140		1.1	3.2	5
Methane RSK-175 (µg/L)	2200		0.63	2	5	3400	J	0.63	2	5	1400		0.63	2	5	300	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	62		3.1	6.4	10	76		3.1	10	10	23		3.1	10	10	62		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0048			G0048			G0048			G0048			G0048			G0048			G0048		
COLLECT DATE	None			None			None			None			None			3/13/2012			3/10/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)																0.774	0.25		0.479	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2017 Sample Well Dry**			**No 2016 Sample Well Dry**			**No 2015 Sample Well Dry**			**No 2014 Sample Well Dry**			**No 2013 Sample Well Dry**			<	1	UJ	1.44	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)																<	0.1	U	0.245	0.1	
Sulfide SM 9034 (mg/L)																2	2		0.2	2	J
Sulfate USEPA 9056A (mg/L)																34.9	1		8.5	1	
Dissolved Organic Carbon SM 9060A (mg/L)																3.77	1		8.09	1	
Alkalinity SM 2320B (mg/L)																320	1.25		315	1	
Methane RSK-175 (µg/L)																2100	100		4600	500	
Carbon Dioxide SM 2320B (mg/L)[1]																142.2	1.25		140	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0048			G0048			G0048			G0048			G0048			G0048			G0048		
COLLECT DATE	3/17/2010			3/18/2009			None			None			None			None			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.055	0.1	J	<	0.05	U															
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	**No 2008 Sample**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.8	0.1	J	4.9	0.5		**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**		
Sulfide SM 9034 (mg/L)	5.4	1		<	1	U															
Sulfate USEPA 9056A (mg/L)	48	5		140	20																
Dissolved Organic Carbon SM 9060A (mg/L)	<	1	U	3.7	1																
Alkalinity SM 2320B (mg/L)	190	5		200	20																
Methane RSK-175 (µg/L)	0.22	5	J	1.3	0.31																
Carbon Dioxide SM 2320B (mg/L)[1]	82	2.2		88	0.22																

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0048			G0048			G0048			G0048			G0048			G0048		
COLLECT DATE	None			3/22/2002			3/23/2001			3/21/2000			4/2/1999			6/18/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)				0.13	0.2	J	<	0.1	U	<	0.1	U	0.256	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2003 Sample**			0.4	0.2		<	0.1	U	<	0.1	U	0.453	0.1		0.141	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			7.2	0.5		8.81	0.5		30.5	2		5.51	1		1.02	1	
Sulfide SM 9034 (mg/L)				1.6	1		<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				39	5		40.3	5		57.8	2		54.9	5		25.5	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)				2.5	1		<	5	U	7.2	5		15.4	5		7.2	5	
Alkalinity SM 2320B (mg/L)				150	5		183	5		172	5		328	5		258	5	
Methane RSK-175 (µg/L)				<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				66	1		80.5	5		75.7	2.2		144	2.2		114	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0049					G0049					G0049					G0049				
COLLECT DATE	5/21/2021					6/13/2020					6/4/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.5		0.022	0.05	0.1	1.2		0.022	0.05	0.1	1.5		0.022	0.05	0.1	1.3		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.7		0.69	1	1	1.4		0.69	1	1	1.3		0.69	1	1	1.4		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	400		5.2	13	25	370		2.1	6	10	320		5.2	15	25	320		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.35	0.8	1	2.9		0.35	1	1	2.8		0.16	0.5	1	2.9		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	310		3.1	6.4	10	290		3.1	10	10	300		3.1	10	10	310		1.1	3.2	5
Methane RSK-175 (µg/L)	3.3	J	0.63	2	5	2.3	J	0.63	2	5	3.6	J	0.63	2	5	8.8	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	138		3.1	6.4	10	129		3.1	10	10	133		3.1	10	10	138		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0049					G0049					G0049					G0049		
COLLECT DATE	3/29/2017					8/15/2016					8/14/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.4	J	0.022	0.05	0.1	2	0.022	0.05	0.1		2.5	0.022	0.05	0.1		2	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.9		0.18	0.5	1	2.2	0.18	0.5	1		2.3	0.18	0.5	1		1.4	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	2.1	0.79	1.9	4	J	<	4	U
Sulfate USEPA 9056A (mg/L)	220		1.2	2.5	25	260	1.2	2.5	25		150	0.23	0.5	5		140	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.9		0.16	0.5	1	3.2	0.16	0.5	1		9.3	0.16	0.5	1		5.4	1	
Alkalinity SM 2320B (mg/L)	340		1.1	3.2	5	300	1.1	3.2	5		350	1.1	3.2	5		380	5	
Methane RSK-175 (µg/L)	3000		0.22	0.8	5	360	0.22	0.8	5		2700	0.22	0.8	5		6600	5	
Carbon Dioxide SM 2320B (mg/L)[1]	151.1					133.3	1.1	3.2	5		155.6	1.1	3.2	5		168.9	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0049			G0049			G0049			G0049			G0049			G0049			G0049		
COLLECT DATE	3/18/2013			3/13/2012			3/10/2011			3/18/2010			1/16/2009			3/18/2008			3/15/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.52	0.25		1.58	0.25		0.579	0.25		0.61	0.1		0.13	0.05		0.12	0.05		0.16	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.83	1		3	1	J	0.791	1	J	1.2	1		<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	<	0.1	U	0.03	0.1	J	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	103	5		120	5		199	10		160	25		110	20		150	10		130	20	
Dissolved Organic Carbon SM 9060A (mg/L)	4.99	1		4.26	1		2.96	1		2.6	1		2.5	1		2.7	1		1.7	1	
Alkalinity SM 2320B (mg/L)	320	1.25		270	1.25		215	1		270	5		260	20		200	2		250	8	
Methane RSK-175 (µg/L)	3000	25		40	5		17	5		4	5	J	8.7	0.31		<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	142	10		120	1.25		96	0.4		120	2.2		110	0.22		88	0.88		110	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0049			G0049			G0049			G0049			G0049			G0049			G0049		
COLLECT DATE	3/15/2006			3/16/2005			3/18/2004			3/18/2003			3/21/2002			3/23/2001			3/21/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.075	0.05		0.18	0.05		0.15	0.2	J	0.49	0.2		0.86	0.2		0.843	0.1		1.64	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	1.4	1		0.29	0.2		<	0.77	U	<	1	U	1.19	0.1		1.73	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	0.088	0.1	J	0.075	0.1	J	0.084	0.1	J	<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.5	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	110	10		85	10		79	2		75	5		67	5		60.4	5		48.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.3	1		1.6	1		2.3	1		1.4	1		1.3	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	240	8		240	8		220	5		270	5		250	5		225	5		226	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.88		100	0.1		97	1		119	1		110	1		99	5		99.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0049			G0049		
COLLECT DATE	4/2/1999			6/18/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	3.52	0.5		1.76	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.7	0.5		0.743	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	0.091	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	36.2	5		39.4	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)	12.5	5		3.7	5	J
Alkalinity SM 2320B (mg/L)	233	5		194	5	
Methane RSK-175 (µg/L)	<	1	U	1.3	1	
Carbon Dioxide SM 2320B (mg/L)[1]	103	2.2		85.5	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0052-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0052			G0052			G0052			G0052			G0052		
COLLECT DATE	None			3/23/2005			3/16/2004			3/25/2003			3/20/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)				1.1	0.05		1	0.2		1.5	0.2		1.2	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	2.1	0.2		1.9	0.2		1.7	0.4	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			8.6	0.25		7.3	1		6	0.2	J	6.3	0.2	
Sulfide SM 9034 (mg/L)				<	1	U	0.7	1	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				58	10		57	2		53	5		51	5	
Dissolved Organic Carbon SM 9060A (mg/L)				3	1		2.5	1		2.4	1		3.3	1	
Alkalinity SM 2320B (mg/L)				120	8		130	5		140	5		170	5	
Methane RSK-175 (µg/L)				<	0.87	U	<	2	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]				53	0.1		57	1.7		62	1		75	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0052-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0052			G0052			G0052			G0052		
COLLECT DATE	3/26/2001			3/16/2000			3/26/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	2.16	0.2		1	0.1		2.94	0.2		2.57	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.8	0.2		1.07	0.1		2.36	0.2		2.14	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.82	0.5		9.38	1		7.68	2		7.66	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	55.3	2.5		52.8	2		67.8	2		49.8	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	12	5		11.2	5		10.4	5	
Alkalinity SM 2320B (mg/L)	125	5		134	5		134	5		110	5	
Methane RSK-175 (µg/L)	0.53	1	J	<	1	U	<	1	U	1.51	1	
Carbon Dioxide SM 2320B (mg/L)[1]	55	5		58.9	2.2		59	2.2		48.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0063			G0063			G0063			G0063			G0063			G0063			G0063		
COLLECT DATE	None			3/12/2013			3/5/2012			3/7/2011			3/1/2010			3/6/2009			3/13/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.604	0.25		0.349	0.25		0.308	0.25		<	0.1	U	0.11	0.05		0.27	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Not Sampled**			0.365	1	J	<	1	U	0.512	1	J	0.56	1	J	<	1	U	1.6	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**in 2014, 2015, 2016**			0.08	0.1	J	<	0.1	U	<	0.1	U	0.21	0.1		<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	**2017, 2018, 2019**			0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	**2020, 2021**			1250	50		1260	25		1260	50		1200	250		970	100		860	100	
Dissolved Organic Carbon SM 9060A (mg/L)				4.58	1		4.04	1		5.1	1		4.5	1		4.2	1		3	1	
Alkalinity SM 2320B (mg/L)				410	1.25		380	1.25		475	1		440	5		440	8		460	4	
Methane RSK-175 (µg/L)				<	5	U	38	5		32	5		27	5		1.3	0.31		<	1.7	U
Carbon Dioxide SM 2320B (mg/L)[1]				182	10		168.9	1.25		211	0.4		190	2.2		190	0.22		202	1.8	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0063			G0063			G0063			G0063			G0063			G0063			G0063		
COLLECT DATE	3/13/2007			3/29/2006			3/18/2005			3/18/2004			3/24/2003			3/21/2002			3/27/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.21	0.05		<	0.05	U	0.09	0.05		0.18	0.2	J	0.13	0.2	J	0.12	0.2	J	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.6	1		0.75	0.2		0.69	0.2		<	0.6	U	1.1	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	0.1	0.05		0.51	0.05		3.1	0.1		4.9	0.2		0.86	0.1		<	0.5	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.2	1		1.1	1		<	1	U
Sulfate USEPA 9056A (mg/L)	1100	100		900	100		910	50		930	40		1100	50		1100	50		1170	100	
Dissolved Organic Carbon SM 9060A (mg/L)	4.8	1		3.9	1		4.3	1		4.3	1		4.6	1		4.8	1		<	5	U
Alkalinity SM 2320B (mg/L)	430	8		380	8		380	8		390	5		420	5		460	5		425	5	
Methane RSK-175 (µg/L)	2.6	0.87		2.1	0.87		3.5	0.87		<	2	U	<	2	U	<	2	U	2.3	1	
Carbon Dioxide SM 2320B (mg/L)[1]	190	0.88		170	0.88		170	0.1		172	1		185	1		200	1		187	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0063			G0063		
COLLECT DATE	3/20/2000			3/31/1999		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.361	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.437	0.1		0.69	0.4	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	629	10		922	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	452	5		475	5	
Methane RSK-175 (µg/L)	4	1		11.1	1	
Carbon Dioxide SM 2320B (mg/L)[1]	199	2.2		209	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0066R					G0066R					G0066R					G0066R				
COLLECT DATE	5/23/2021					6/13/2020					6/7/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	3.5		0.022	0.05	0.1	1.5		0.022	0.05	0.1	3.4		0.022	0.05	0.1	3.1		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.9		0.69	1	1	2.2		0.69	1	1	1.2		0.69	1	1	4.6		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.2		0.019	0.05	0.1	1.9		0.69	1	1.0	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	450		5.2	13	25	530		5.2	15	25	530	J	5.2	15	25	310		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	13		0.35	0.8	1	5.4		0.35	1	1	5.8		0.16	0.5	1	4.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	640		3.1	6.4	10	590		3.1	10	10	620		3.1	10	10	560		1.1	3.2	5
Methane RSK-175 (µg/L)	4000		0.63	2	5	6000		0.63	2	5	5000		0.63	2	5	13000		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	284		3.1	6.4	10	262		3.1	10	10	276		3.1	10	10	249		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0066R					G0066R					G0066R					G0066R		
COLLECT DATE	3/27/2017					8/8/2016					8/10/2015					8/11/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	5.5		0.11	0.25	0.5	6.6	0.044	0.10	0.20		2.5	0.022	0.05	0.1		2.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.8		0.18	0.5	1	9.9	0.36	1.0	2.0		2.2	0.18	0.5	1		1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.050	0.10	UJ	0.048	0.019	0.05	0.1	J	0.051	0.1	J
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	<	0.79	1.9	4.0	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	210		1.2	2.5	25	32	0.23	0.50	5.0		130	0.23	0.5	5		91	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.6		0.16	0.5	1	300	1.1	3.5	7.0		4.6	0.93	0.5	1		4.7	1	
Alkalinity SM 2320B (mg/L)	560		1.1	3.2	5	800	1.1	3.2	5.0		480	1.1	3.2	5		450	5	
Methane RSK-175 (µg/L)	20000		0.44	1.6	10	19000	0.44	1.6	10		16000	0.44	0.8	5		20000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	248.9		1.1	3.2	5	355.6	1.1	3.2	5		213.3	1.1	3.2	5		200	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0066R			G0066R			G0066R			G0066			G0066			G0066			G0066		
COLLECT DATE	3/21/2013			3/15/2012			3/10/2011			3/17/2010			3/12/2009			None			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	4.77	0.25		0.872	0.25		0.277	0.25		1.8	0.1		<	0.05	U						
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	8.43	1		2.54	1		1.26	1		<	1	U	<	1	U	**No 2008 Sample**			**No 2007 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	0.058	0.1	J	1.99	0.1		16	0.5		1.3	0.5		**Well Dry**			**Well Dry**		
Sulfide SM 9034 (mg/L)	0.802	2	J	0.8	2	J	0.2	2	J	5.6	1		<	1	U						
Sulfate USEPA 9056A (mg/L)	49.8	1		59.8	1		136	5		110	25		160	20							
Dissolved Organic Carbon SM 9060A (mg/L)	6.95	1		9.42	1		9.75	1		4.2	1		2.9	1							
Alkalinity SM 2320B (mg/L)	590	1.25		560	1.25		505	1		370	5		280	20							
Methane RSK-175 (µg/L)	4900	49		4400	500		<	5	UJ	1300	10		0.29	0.31	J						
Carbon Dioxide SM 2320B (mg/L)[1]	262	10		248.9	1.25		224	0.4		160	2.2		120	0.22							

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0066			G0066			G0066			G0066			G0066			G0066			G0066		
COLLECT DATE	None			None			None			3/19/2003			3/25/2002			3/20/2000			3/26/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)										2.4	0.2		3	0.4	J	8.63	1		3.84	2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			6.2	1		2.4	0.4	J	14.5	1		3.96	2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			**Well Dry**			**Well Dry**			17.66	0.5	J	22.4	0.5		6.28	0.5		8.84	1	
Sulfide SM 9034 (mg/L)										<	1	U	0.6	1	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)										25	5		53	5		34.3	2.5		21.8	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)										2.5	1		3.8	1		<	5	U	16	5	
Alkalinity SM 2320B (mg/L)										240	5		340	5		316	5		300	5	
Methane RSK-175 (µg/L)										<	2	U	<	2	U	1.9	1		3.4	1	
Carbon Dioxide SM 2320B (mg/L)[1]										106	1		150	1		139	5		132	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066R-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0066			G0066		
COLLECT DATE	3/31/1999			6/22/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	3.28	0.4		4.39	0.5	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.39	0.4		1.524	0.2	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	10.8	1		13.1	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	37.4	5		40.4	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)	10.7	5		10.2	5	
Alkalinity SM 2320B (mg/L)	375	5		306	5	
Methane RSK-175 (µg/L)	8.13	1		4.02	1	
Carbon Dioxide SM 2320B (mg/L)[1]	165	2.2		135	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0067					G0067					G0067					G0067				
COLLECT DATE	5/22/2021					6/13/2020					6/8/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	15		0.038	0.1	0.2	12		0.038	0.1	0.2	22		0.095	0.25	0.5	15		0.04	0.1	0.2
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	17		10	10	10
Sulfate USEPA 9056A (mg/L)	120		1	2.5	5	110		1	3	5	65	J	1	3	5	80		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3		0.35	0.8	1	2.5		0.35	1	1	3.3		0.16	0.5	1	2.9		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	250		3.1	6.4	10	220		3.1	10	10	180		3.1	10	10	200		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	1.4	J	0.63	2	5	<	U	0.63	2	5	0.33	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	111		3.1	6.4	10	98		3.1	10	10	80		3.1	10	10	89		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0067					G0067					G0067					G0067		
COLLECT DATE	3/30/2017					8/16/2016					8/17/2015					None		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.033	J	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.05	0.1	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	UJ	<	0.18	0.5	1	U	**No 2014 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	12		0.095	0.25	0.5	11	0.095	0.25	0.5	J	9.3	0.038	0.1	0.2		**Well Dry**		
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	0.8	0.79	1.9	4	J			
Sulfate USEPA 9056A (mg/L)	72		0.23	0.5	5	76	0.23	0.5	5		76	0.23	0.5	5				
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.16	0.5	1	2.8	0.16	0.5	1		3.2	0.16	0.5	1				
Alkalinity SM 2320B (mg/L)	230		1.1	3.2	5	230	1.1	3.2	5		190	1.1	3.2	5				
Methane RSK-175 (µg/L)	<	U	0.22	0.8	5	0.91	0.22	0.8	5	J	<	0.22	0.8	5	U			
Carbon Dioxide SM 2320B (mg/L)[1]	102.2		1.1	3.2	5	102.2	1.1	3.2	5		84.44	1.1	3.2	5				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0067			G0067			G0067			G0067			G0067			G0067			G0067		
COLLECT DATE	3/18/2013			3/3/2012			3/10/2011			3/18/2010			3/19/2009			3/18/2008			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.444	0.25		<	0.25	UJ	<	0.25	U	0.035	0.1	J	<	0.05	U	0.14	0.05				
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.064	1	J	<	1	UJ	<	1	U	0.38	1	J	<	1	U	<	1	U	**No 2007 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.48	0.1		9.7	0.1		14.2	0.1		5.3	0.1		10	0.5		2.7	0.1		**Well Dry**		
Sulfide SM 9034 (mg/L)	0.401	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)	66.6	1		56.9	1		61.3	1		31	5		35	2		33	10				
Dissolved Organic Carbon SM 9060A (mg/L)	2.72	1		<	1	U	2.34	1		3.6	1		2.3	1		1.7	1				
Alkalinity SM 2320B (mg/L)	209	1.25		170	1.25		265	1		110	5		100	20		120	2				
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U			
Carbon Dioxide SM 2320B (mg/L)[1]	93	10		75.56	1.25		118	0.4		50	2.2		44	0.22		53	0.88				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0067			G0067			G0067			G0067			G0067			G0067			G0067		
COLLECT DATE	None			None			3/18/2004			3/18/2003			3/22/2002			3/23/2001			3/21/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.2	U	0.14	0.2	J	0.09	0.2	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2006 Sample**			**No 2005 Sample**			0.84	0.2		<	0.63	U	0.32	0.2		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			**Well Dry**			4.5	1		11	0.5	J	8.9	0.5		7.62	0.5		6.15	1	
Sulfide SM 9034 (mg/L)							<	1	U	0.6	1	J	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)							18	2		27	5	H	25	5		32.7	5		25.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)							2.3	1		2.4	1		2.6	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)							120	5		180	5		170	5		158	5		162	5	
Methane RSK-175 (µg/L)							<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]							53	1		79	1		75	1		69.5	5		71.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0067			G0067		
COLLECT DATE	4/2/1999			6/18/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.05	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.167	0.1		0.08	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.23	1		1.16	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	26.7	5		7.62	0.4	
Dissolved Organic Carbon SM 9060A (mg/L)	14.4	5		6.2	5	
Alkalinity SM 2320B (mg/L)	172	5		70.9	5	
Methane RSK-175 (µg/L)	<	1	U	1.11	1	
Carbon Dioxide SM 2320B (mg/L)[1]	75.7	2.2		31.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0068-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0068			G0068			G0068			G0068			G0068			G0068			G0068			G0068		
COLLECT DATE	None			3/11/2013			3/5/2012			None			3/14/2007			3/28/2006			3/22/2005					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)				0.827	0.25		<	0.25	UJ				0.053	0.05		<	0.05	U	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.281	1	J	2.25	1		**Not Sampled**			<	1	U	<	1	U	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			0.558	0.1		0.679	0.1		**in 2008, 2009, 2010,**			0.84	0.05	J	0.48	0.05		0.06	0.05				
Sulfide SM 9034 (mg/L)				0.2	2	J	0.4	2	J	**2011**			<	1	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)				82.3	5		178	5					140	20		170	50		150	50				
Dissolved Organic Carbon SM 9060A (mg/L)				4.53	1		5.96	1					9.1	1		10	1		23	1				
Alkalinity SM 2320B (mg/L)				455	1.25		480	1.25					520	8		460	8		610	8				
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U			
Carbon Dioxide SM 2320B (mg/L)[1]				202	10		213.3	1.25					230	0.88		200	0.88		270	0.1				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0068-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0068			G0068			G0068			G0068			G0068			G0068			G0068		
COLLECT DATE	3/17/2004			3/21/2003			3/25/2002			3/28/2001			3/17/2000			3/29/1999			6/23/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	0.38	0.2		<	0.72	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.59	U	<	0.62	U	0.29	0.2		0.187	0.1		0.676	0.1		0.546	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.26	U	0.57	0.1		0.96	0.1		<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.6	1	J	<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	180	10		280	10		300	25		359	50		317	2		275	10		262	5	
Dissolved Organic Carbon SM 9060A (mg/L)	23	1		20	1		17	1		8.1	5		20	10		<	5	U	14.9	5	
Alkalinity SM 2320B (mg/L)	590	5		630	5		670	5		615	10		566	5		715	5		555	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	260	1		270	1		300	1		271	5		249	2.2		315	2.2		244	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0070					G0070					G0070					G0070				
COLLECT DATE	5/20/2021					6/2/2020					6/9/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.039	J	0.022	0.05	0.1	0.043	J	0.022	0.05	0.1	0.02	J	0.02	0.05	0.2
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	2
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	UJ	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	44		1	2.5	5	39		1	3	5	190	J	5.2	15	25	37		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	1.1		0.35	0.8	1	1		0.35	1	1	0.86	J	0.16	0.5	1	0.82	J	0.16	0.5	1
Alkalinity SM 2320B (mg/L)	220		3.1	6.4	10	200		3.1	10	10	220		3.1	10	10	210		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	0.71	J	0.22	0.8	15
Carbon Dioxide SM 2320B (mg/L)[1]	98		3.1	6.4	10	89		3.1	10	10	98		3.1	10	10	93		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0070					G0070					G0070					G0070		
COLLECT DATE	3/29/2017					8/10/2016					8/13/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.057	J	0.022	0.05	0.1	0.027	0.022	0.05	0.1	J	0.065	0.022	0.05	0.1	J	0.027	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	UJ	<	0.18	0.5	1	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	32		0.23	0.5	5	33	0.23	0.5	5		35	0.23	0.5	5		29	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.3		0.16	0.5	1	1	0.16	0.5	1		0.97	0.16	0.5	1	J	0.83	1	J
Alkalinity SM 2320B (mg/L)	200		1.1	3.2	5	200	1.1	3.2	5		200	1.1	3.2	5		210	5	
Methane RSK-175 (µg/L)	0.65	J	0.22	0.8	5	0.69	0.22	0.8	5	J	0.61	0.22	0.8	5	J	0.57	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	88.89		1.1	3.2	5	88.89	1.1	3.2	5		88.89	1.1	3.2	5		93.33	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0070			G0070			G0070			G0070			G0070			G0070			G0070		
COLLECT DATE	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009			3/12/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.274	0.25		0.244	0.25	J	0.231	0.25	J	0.064	0.1	J	0.062	0.05		0.34	0.05		0.077	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.196	1	J	<	1	UJ	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	UJ	0.025	0.1	J	<	0.05	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	0.2	2	J	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	31	1		28.8	1		27.6	1		23	5		19	2		23	10		20	10	
Dissolved Organic Carbon SM 9060A (mg/L)	1.39	1		<	1	U	1.2	1		0.5	1	J	1.5	1		1.5	1		<	1	U
Alkalinity SM 2320B (mg/L)	195	1.25		200	1.25		175	1		190	5		210	20		180	2		200	8	
Methane RSK-175 (µg/L)	<	5	U	9.1	5		<	5	UJ	0.28	5	J	0.42	0.31		<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	87	10		88.89	1.25		78	0.4		86	2.2		92	0.22		79	0.88		86	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0070			G0070			G0070			G0070			G0070			G0070			G0070		
COLLECT DATE	3/15/2006			3/15/2005			3/17/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.18	0.2	J	0.13	0.2	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.2	1		<	0.2	U	<	0.51	U	0.5	0.4		0.175	0.1		0.085	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.1	U	<	0.1	U	0.094	0.1	J	<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	19	10		20	10		21	2		23	5		21	5		23.9	5		18.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	1	U	1.2	1		<	1	U	<	1	U	1.6	1		<	5	U	8.2	5	
Alkalinity SM 2320B (mg/L)	190	8		190	8		180	5		190	5		200	5		178	5		186	5	
Methane RSK-175 (µg/L)	0.45	0.87	J	0.3	0.87	J	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.88		44	0.1		79	1		84	1		88	1		78.3	5		81.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0070-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0070			G0070		
COLLECT DATE	4/1/1999			6/29/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.159	0.1		0.1	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	0.2	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	23.9	5		17.9	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	9.7	5	
Alkalinity SM 2320B (mg/L)	207	5		180	5	
Methane RSK-175 (µg/L)	1.2	1		1.08	1	
Carbon Dioxide SM 2320B (mg/L)[1]	91.1	2.2		79.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0075					G0075					G0075					G0075				
COLLECT DATE	5/20/2021					6/1/2020					6/9/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.062	J	0.022	0.05	0.1	0.056	J	0.022	0.05	0.1	0.05	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	UJ	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.3		0.019	0.05	0.1	2.4	J	0.019	0.05	0.1	0.49		0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	190		1	2.5	5	150		1	3	5	120	J	1	3	5	180		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	2.7		0.35	0.8	1	3.4		0.35	1	1	3.2		0.16	0.5	1	2.5		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	290		3.1	6.4	10	360		3.1	10	10	440		3.1	10	10	270		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	150		0.63	2	5	170	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	129		3.1	6.4	10	160		3.1	10	10	196		3.1	10	10	120		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0075					G0075					G0075					G0075		
COLLECT DATE	4/1/2017					8/10/2016					8/13/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.044	J	0.022	0.05	0.1	0.024	0.022	0.05	0.1	J	0.039	0.022	0.05	0.1	J	0.038	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	0.35	0.18	0.5	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	1.4	0.1	
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	130		0.23	0.5	5	120	0.23	0.5	5		110	0.23	0.5	5		87	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5		0.16	0.5	1	2.6	0.16	0.5	1		2.6	0.16	0.5	1		2.8	1	
Alkalinity SM 2320B (mg/L)	260		1.1	3.2	5	260	1.1	3.2	5		220	1.1	3.2	5		250	5	
Methane RSK-175 (µg/L)	310		0.22	0.8	5	990	0.22	0.8	5		400	0.22	0.8	5		980	5	
Carbon Dioxide SM 2320B (mg/L)[1]	115.6		1.1	3.2	5	115.6	1.1	3.2	5		97.78	1.1	3.2	5		111.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0075			G0075			G0075			G0075			G0075			G0075			G0075		
COLLECT DATE	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/16/2009			3/12/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.65	0.25		<	0.25	U	<	0.25	UJ	0.045	0.1	J	<	0.05	U	0.65	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.353	1	J	<	1	UJ	<	1	UJ	<	1	U	<	1	U	1.4	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.031	0.1	J	<	0.1	U	0.081	0.1	J	<	0.1	U	<	0.05	U	1.2	0.5		4.7	1	J
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	0.2	2	J	0.37	1	J	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	19.6	1		91.5	2		75.5	2		79	25		34	2		38	10		55	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3	1		<	1	U	2.94	1		2.4	1		4.7	1		3.9	1		2.1	1	
Alkalinity SM 2320B (mg/L)	234	1.25		300	1.25		305	1		210	5		210	20		150	2		220	8	
Methane RSK-175 (µg/L)	910	100		1100	25	J	530	25		180	5		1000	0.31		1.8	1.7		<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	104	10		133.3	1.25		136	0.4		91	2.2		92	0.22		66	0.88		95	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0075			G0075			G0075			G0075			G0075			G0075			G0075		
COLLECT DATE	3/15/2006			3/15/2005			3/17/2004			3/18/2003			3/21/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.12	0.2	J	0.1	0.2	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.3	1		1.1	0.2		<	0.43	U	<	0.46	U	0.219	0.1		0.928	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.6	0.25		4.9	0.25		8.3	1		3.1	0.1		2.4	0.1		2	5		4.26	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	39	10		46	10		42	2		45	5		39	5		43.7	5		30.6	2	
Dissolved Organic Carbon SM 9060A (mg/L)	2.2	1		2.2	1		<	1.9	U	1.9	1		2.5	1		<	5	U	5.6	5	
Alkalinity SM 2320B (mg/L)	190	8		200	8		190	5		210	5		190	5		198	5		200	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	23	1		<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.88		88	0.1		84	1		92	1		84	1		87	5		88	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0075			G0075		
COLLECT DATE	4/1/1999			6/29/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.153	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.36	1		1.91	0.2	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	40.7	5		36.3	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	10	5	
Alkalinity SM 2320B (mg/L)	235	5		199	5	
Methane RSK-175 (µg/L)	<	1	U	4.03	1	
Carbon Dioxide SM 2320B (mg/L)[1]	103	2.2		87.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0076					G0076					G0076					G0076				
COLLECT DATE	5/20/2021					6/1/2020					6/9/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.6		0.022	0.05	0.1	1.4		0.022	0.05	0.1	0.87		0.022	0.05	0.1	0.56		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.8		0.69	1	1	1.3		0.69	1	1	1.1		0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	320		2.1	5	10	310		5.2	15	25	280	J	5.2	15	25	290		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	3.4		0.35	0.8	1	3.3		0.35	1	1	2.8		0.16	0.5	1	2.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	370		3.1	6.4	10	320		3.1	10	10	330		3.1	10	10	340		1.1	3.2	5
Methane RSK-175 (µg/L)	210		0.63	2	5	180		0.63	2	5	310		0.63	2	5	110	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	164		3.1	6.4	10	142		3.1	10	10	147		3.1	10	10	151		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0076					G0076					G0076					G0076		
COLLECT DATE	3/29/2017					8/10/2016					8/13/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.4		0.022	0.05	0.1	0.37	0.022	0.05	0.1		0.42	0.022	0.05	0.1	J	0.5	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.44	0.18	0.5	1	J	0.26	0.18	0.5	1	J	0.21	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	240		1.2	2.5	25	210	1.2	2.5	25		170	0.23	0.5	5		130	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.16	0.5	1	2.8	0.16	0.5	1		2.4	0.16	0.5	1		2.6	1	
Alkalinity SM 2320B (mg/L)	320		1.1	3.2	5	300	1.1	3.2	5		250	1.1	3.2	5		310	5	
Methane RSK-175 (µg/L)	94	J	0.22	0.8	5	83	0.22	0.8	5		310	0.22	0.8	5		750	5	
Carbon Dioxide SM 2320B (mg/L)[1]	142.2		1.1	3.2	5	133.3	1.1	3.2	5		111.1	1.1	3.2	5		137.8	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0076			G0076			G0076			G0076			G0076			G0076			G0076		
COLLECT DATE	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/16/2009			3/12/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.506	0.25		0.882	0.25		0.783	0.25		0.74	0.1		0.99	0.05		1.3	0.05		1.2	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.959	1	J	2.82	1	J	1.13	1		<	1	U	1.3	1		2	1		1.4	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	0.2	2	J	0.4	2	J	<	2	U	<	1	U	8	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	18.4	1		82.6	2		75.5	1		100	25		88	20		88	10		81	10	
Dissolved Organic Carbon SM 9060A (mg/L)	6.44	1		2.69	1		2.77	1		1.3	1		2	1		1.9	1		1.3	1	
Alkalinity SM 2320B (mg/L)	325	1.25		320	1.25		345	1		270	5		270	20		270	4		260	8	
Methane RSK-175 (µg/L)	1600	50		730	50		220	5		2.7	5	J	1.3	0.31		<	1.7	U	0.98	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]	144	10		142.2	1.25		153	0.4		120	2.2		120	0.22		119	1.8		120	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0076			G0076			G0076			G0076			G0076			G0076			G0076		
COLLECT DATE	3/15/2006			3/15/2005			3/17/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.4	0.05		1.7	0.05		1.4	0.2		1.7	0.2		2	0.2		2.28	0.2	U	1.69	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.7	1		2.5	1		1.5	0.2		2.4	0.2		1.4	0.4		2.43	0.2		1.74	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.1	U	<	0.1	U	0.076	0.1	J	<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	62	10		57	10		52	2		52	5		44	5		44	5		51	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.4	1		1.5	1		<	1.3	U	1.3	1		1.8	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	240	8		240	8		230	5		230	5		230	5		203	5		228	5	
Methane RSK-175 (µg/L)	1	0.87		0.48	0.87	J	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.88		110	0.1		101	1		101	1		100	1		89	5		100	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0076			G0076		
COLLECT DATE	4/1/1999			6/29/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	1.33	0.1		0.976	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.4	0.1		1.06	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	0.2	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	45.3	5		41.2	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	13.1	5	
Alkalinity SM 2320B (mg/L)	259	5		220	5	
Methane RSK-175 (µg/L)	12.4	1		1.21	1	
Carbon Dioxide SM 2320B (mg/L)[1]	114	2.2		96.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0077					G0077					G0077					G0077				
COLLECT DATE	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.052	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	UJ	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	9		0.019	0.05	0.1	13		0.19	0.5	1.0	31		0.19	0.5	1.0	32		0.1	0.25	1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	140		1	2.5	5	99		1	3	5	130		1	3	5	150		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.4		0.35	0.8	1	3.6		0.35	1	1	5.1		0.16	0.5	1	4.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	310		3.1	6.4	10	260		3.1	10	10	260		3.1	10	10	330		1.1	3.2	5
Methane RSK-175 (µg/L)	530		0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	7.7		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	138		3.1	6.4	10	116		3.1	10	10	116		3.1	10	10	147		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0077					G0077					G0077					G0077		
COLLECT DATE	4/1/2017					8/9/2016					8/12/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	0.048	0.022	0.05	0.1	J	0.022	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	25		0.095	0.25	0.5	19	0.19	0.5	1		18	0.095	0.25	0.5		15	0.2	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	0.96	4	J
Sulfate USEPA 9056A (mg/L)	130		0.23	0.5	5	110	0.23	0.5	5		100	0.23	0.5	5		71	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.1		0.16	0.5	1	3.8	0.16	0.5	1		4	0.16	0.5	1		3	1	
Alkalinity SM 2320B (mg/L)	320		1.1	3.2	5	300	1.1	3.2	5		290	1.1	3.2	5		270	5	
Methane RSK-175 (µg/L)	8.1		0.22	0.8	5	120	0.22	0.8	5		29	0.22	0.8	5		66	5	
Carbon Dioxide SM 2320B (mg/L)[1]	142.2		1.1	3.2	5	133.3	1.1	3.2	5		128.9	1.1	3.2	5		120	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0077			G0077			G0077			G0077			G0077			G0077			G0077		
COLLECT DATE	3/13/2013			3/12/2012			3/15/2011			3/16/2010			3/13/2009			3/12/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.447	0.25		<	0.25	U	<	0.25	UJ	<	0.1	U	<	0.05	U	0.2	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	15	0.1		13.9	0.1		16.2	0.1		23	0.5		14	0.5		17	0.5		15	1	J
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	0.4	2	J	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	71.8	1		77.1	1		85.4	5		86	25		60	20		63	10		48	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.33	1		<	1	U	4.51	1		4.9	1		3.9	1		4.6	1		2.4	1	
Alkalinity SM 2320B (mg/L)	435	1.25		330	1.25		265	1		360	5		320	20		310	4		260	8	
Methane RSK-175 (µg/L)	4.4	5	J	<	5	UJ	<	5	UJ	<	5	U	0.27	0.31	J	<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	193	10		146.7	1.25		118	0.4		160	2.2		140	0.22		136	1.8		110	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0077			G0077			G0077			G0077			G0077			G0077			G0077		
COLLECT DATE	3/14/2006			3/15/2005			3/15/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.27	0.2		<	0.2	U	0.12	0.1		0.272	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	0.91	0.2		<	0.42	U	0.55	0.4		0.411	0.1	J	1.29	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	5	0.5	J	9.8	0.5		7.8	1	J	10	0.5	J	9.7	0.5		9.24	0.5		8.27	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	46	10		40	10		36	2		41	5		45	1		48.3	5		31.6	2	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		2.6	1		2.3	1		3	1		3.6	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	250	8		250	8		230	5		280	5		290	5		305	5		215	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.88		110	0.1		101	0.5		123	1	J	130	1		134	5		94.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0077			G0077		
COLLECT DATE	4/1/1999			6/30/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	1.55	0.1		0.738	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.64	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.8	1		10.1	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	35.4	5		61.8	2	
Dissolved Organic Carbon SM 9060A (mg/L)	6.3	5		10.8	5	
Alkalinity SM 2320B (mg/L)	220	5		210	5	
Methane RSK-175 (µg/L)	0.802	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	96.8	2.2		92.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0078					G0078					G0078					G0078				
COLLECT DATE	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.29		0.022	0.05	0.1	0.46		0.022	0.05	0.1	0.44		0.022	0.05	0.1	0.06	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.7	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	270		5.2	13	25	250		5.2	15	25	250	J	5.2	15	25	260		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	2.9		0.35	0.8	1	3.8		0.35	1	1	2.9		0.16	0.5	1	2.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	320		3.1	6.4	10	340		3.1	10	10	400		3.1	10	10	360		1.1	3.2	5
Methane RSK-175 (µg/L)	130		0.63	2	5	130		0.63	2	5	280	J	0.63	2	5	150	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	142		3.1	6.4	10	151		3.1	10	10	178		3.1	10	10	160		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0078					G0078					G0078					G0078		
COLLECT DATE	4/1/2017					8/9/2016					8/12/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.066	J	0.022	0.05	0.1	0.062	0.022	0.05	0.1	J	0.1	0.022	0.05	0.1		0.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	1.7	0.18	0.5	1		<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	1.4	4	J
Sulfate USEPA 9056A (mg/L)	270		1.2	2.5	25	260	1.2	2.5	25		270	1.2	2.5	25		240	25	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5		0.16	0.5	1	2.5	0.16	0.5	1		2.4	0.16	0.5	1		2.4	1	
Alkalinity SM 2320B (mg/L)	340		1.1	3.2	5	340	1.1	3.2	5		340	1.1	3.2	5		330	5	
Methane RSK-175 (µg/L)	200		0.22	0.8	5	170	0.22	0.8	5		150	0.22	0.8	5		110	5	
Carbon Dioxide SM 2320B (mg/L)[1]	151.1		1.1	3.2	5	151.1	1.1	3.2	5		151.1	1.1	3.2	5		146.7	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0078			G0078			G0078			G0078			G0078			G0078			G0078		
COLLECT DATE	3/13/2013			3/12/2012			3/14/2011			3/16/2010			3/13/2009			3/13/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.569	0.25		0.188	0.25	J	0.239	0.25	J	0.046	0.1	J	<	0.05	U	0.28	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.489	1	J	<	1	UJ	<	1	UJ	0.12	1	J	<	1	U	1.2	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.006	0.1	J	<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	0.2	2	J	0.6	2	J	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	21.6	1		189	5		168	5		120	25		110	20		91	10		35	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.66	1		2.52	1		2.17	1		1.3	1		2	1		1.8	1		1.3	1	
Alkalinity SM 2320B (mg/L)	344	1.25		290	1.25		275	1		290	5		270	20		310	4		260	8	
Methane RSK-175 (µg/L)	51	5		27	5		<	5	UJ	1.2	5	J	0.76	0.31		<	1.7	U	1.1	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]	153	10		128.9	1.25		122	0.4		130	2.2		120	0.22		136	1.8		120	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0078			G0078			G0078			G0078			G0078			G0078			G0078		
COLLECT DATE	3/14/2006			3/15/2005			3/15/2004			3/18/2003			3/20/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.18	0.2	J	<	0.2	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.3	1		0.2	0.2		<	0.3	U	0.37	0.4	J	0.236	0.1		0.113	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	0.1	0.1		<	0.1	U	<	0.1	U	<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	60	10		51	10		48	2		48	5		42	5		45.6	5		34.5	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.3	1		1.2	1		<	1.2	U	1.3	1		1.8	1		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	250	8		240	8		220	5		230	5		220	5		203	5		228	5	
Methane RSK-175 (µg/L)	0.68	0.87	J	1.6	0.87		<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.88		100	0.1		97	0.2		101	1		97	1		89.3	5		100	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-41
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0078-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0078			G0078		
COLLECT DATE	4/1/1999			6/30/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.283	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	35.7	5		39	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	10.2	5	
Alkalinity SM 2320B (mg/L)	246	5		225	5	
Methane RSK-175 (µg/L)	0.579	1	J	1.68	1	
Carbon Dioxide SM 2320B (mg/L)[1]	108	2.2		99	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0079					G0079					G0079					G0079		
COLLECT DATE	5/20/2021					6/1/2020					6/9/2019					None		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.065	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.83	J	0.69	1	1	<	UJ	0.69	1	1	<	U	0.69	1	1	**No 2018 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.8		0.019	0.05	0.1	0.83		0.019	0.05	0.1	0.52		0.019	0.05	0.1	**Well Dry**		
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4			
Sulfate USEPA 9056A (mg/L)	50		1	2.5	5	48	J	1	3	5	15	J	1	3	5			
Dissolved Organic Carbon SM 9060A (mg/L)	5		0.35	0.8	1	6		0.35	1	1	3.2		0.16	0.5	1			
Alkalinity SM 2320B (mg/L)	310		3.1	6.4	10	310		3.1	10	10	67		3.1	10	10			
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5			
Carbon Dioxide SM 2320B (mg/L)[1]	138		3.1	6.4	10	138		3.1	10	10	30		3.1	10	10			

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0079			G0079			G0079			G0079			G0079			G0079			G0079		
COLLECT DATE	None			None			None			None			None			3/12/2012			3/15/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)																<	0.25	UJ	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2017 Sample**			**No 2016 Sample**			**No 2015 Sample**			**No 2014 Sample**			**No 2013 Sample**			<	1	UJ	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			1.85	0.1		1.16	0.1	
Sulfide SM 9034 (mg/L)																0.4	2	J	<	2	U
Sulfate USEPA 9056A (mg/L)																40.8	1		30.5	1	
Dissolved Organic Carbon SM 9060A (mg/L)																<	1	U	2.57	1	
Alkalinity SM 2320B (mg/L)																210	1.25		160	1	
Methane RSK-175 (µg/L)																4.2	5	J	23	5	
Carbon Dioxide SM 2320B (mg/L)[1]																93.33	1.25		71	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0079			G0079			G0079			G0079			G0079			G0079			G0079		
COLLECT DATE	3/15/2010			3/16/2009			None			None			None			None			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.04	0.1	J	<	0.05	U															
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	**No 2008 Sample**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.87	0.1		0.61	0.05		**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**		
Sulfide SM 9034 (mg/L)	5.8	1		<	1	U															
Sulfate USEPA 9056A (mg/L)	25	5		75	20																
Dissolved Organic Carbon SM 9060A (mg/L)	2	1		3.1	1																
Alkalinity SM 2320B (mg/L)	160	5		160	20																
Methane RSK-175 (µg/L)	960	10		<	0.31	U															
Carbon Dioxide SM 2320B (mg/L)[1]	71	2.2		72	0.22																

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-42
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0079			G0079			G0079			G0079		
COLLECT DATE	None			3/21/2002			3/22/2001			3/23/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)				0.09	0.2	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2003 Sample**			<	0.4	U	0.126	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			3.6	0.1		12	0.5		4.54	1	
Sulfide SM 9034 (mg/L)				1.3	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				30	5		35.1	5		31.8	2	
Dissolved Organic Carbon SM 9060A (mg/L)				3.5	1		<	5	U	6..8	5	
Alkalinity SM 2320B (mg/L)				240	5		238	5		218	5	
Methane RSK-175 (µg/L)				<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				110	1		105	5		95.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0080					G0080					G0080					G0080				
COLLECT DATE	5/20/2021					6/11/2020					6/9/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.3		0.022	0.05	0.1	0.83		0.022	0.05	0.1	0.064	J	0.022	0.05	0.1	0.59		0.02	0.5	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.1		0.69	1	1	0.97	J	0.69	1	1	<	U	0.69	1	1	0.75	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.4		0.019	0.05	0.1	2.9		0.019	0.05	0.1	2.8		0.019	0.05	0.1	2.5		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<		0.79	3.2	4
Sulfate USEPA 9056A (mg/L)	100		1	2.5	5	87		5.2	15	25	84	J	1	3	5	100	U	0.23	1.9	5
Dissolved Organic Carbon SM 9060A (mg/L)	8.3		0.35	0.8	1	2.8		0.35	1	1	2.6		0.16	0.5	1	2.4		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	270		3.1	6.4	10	310		3.1	10	10	300		3.1	10	10	310		1.1	0.05	5
Methane RSK-175 (µg/L)	1.1	J	0.63	2	5	8.8		0.63	2	5	2.5	J	0.63	2	5	35		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	120		3.1	6.4	10	138		3.1	10	10	133		3.1	10	10	138		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0080					G0080					G0080					G0080		
COLLECT DATE	3/30/2017					8/16/2016					8/5/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.049	J	0.022	0.05	0.1	<	0.022	0.05	0.1	U	0.26	0.022	0.05	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.23	0.18	0.5	1	J	<	0.18	0.5	1	U	0.2	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.2		0.019	0.05	0.1	1.8	0.019	0.05	0.1		1.9	0.019	0.05	0.1		2.9	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	90		0.23	0.5	5	110	0.23	0.5	5		86	0.23	0.5	5		42	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.2		0.16	0.5	1	3.2	0.16	0.5	1		2.3	0.16	0.5	1		2.9	1	
Alkalinity SM 2320B (mg/L)	360		1.1	3.2	5	190	1.1	3.2	5		240	1.1	3.2	5		170	5	
Methane RSK-175 (µg/L)	24		0.22	0.8	5	8.9	0.22	0.8	5		100	0.22	0.8	5		9.1	5	
Carbon Dioxide SM 2320B (mg/L)[1]	115.6		1.1	3.2	5	84.44	1.1	3.2	5		106.7	1.1	3.2	5		75.56	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-43
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0080			G0080			G0080			G0080			G0080		
COLLECT DATE	3/13/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.659	0.25		<	0.25	UJ	<	0.25	UJ	0.041	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.191	1	J	<	1	UJ	<	1	UJ	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.71	0.1		1.1	0.1		2.56	0.1		3.3	0.1		4.5	0.5	
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	0.2	2	J	6.2	1		<	1	U
Sulfate USEPA 9056A (mg/L)	99.4	5		112	5		112	5		94	25		63	20	J
Dissolved Organic Carbon SM 9060A (mg/L)	2.11	1		<	1	U	2.23	1		1.4	1		2.2	1	J
Alkalinity SM 2320B (mg/L)	308	1.25		270	1.25		255	1		260	5		250	20	
Methane RSK-175 (µg/L)	200	5		300	25		190	5		2900	50		400	0.31	
Carbon Dioxide SM 2320B (mg/L)[1]	137	10		120	1.25		113	0.4		110	2.2		110	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-44
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0081					G0081					G0081					G0081				
COLLECT DATE	5/20/2021					6/2/2020					6/9/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.31		0.022	0.05	0.1	0.23		0.022	0.05	0.1	0.27	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	1.1		0.69	1	1	1.2		0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.6		0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.056	J	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	140		1	2.5	5	190		1	3	5	120	J	1	3	5	50		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.6		0.35	0.8	1	6.6		0.35	1	1	8.6		0.16	0.5	1	10		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	280		3.1	6.4	10	280		3.1	10	10	380		3.1	10	10	460		1.1	3.2	5
Methane RSK-175 (µg/L)	76		0.63	2	5	1100		0.63	2	5	2900		0.63	2	5	9200		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	124		3.1	6.4	10	124		3.1	10	10	169		3.1	10	10	204		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-44
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0081					G0081					G0081					G0081		
COLLECT DATE	3/30/2017					8/11/2016					8/17/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.47		0.022	0.05	0.1	0.59	0.022	0.05	0.1		0.69	0.022	0.05	0.1		0.85	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.77	0.18	0.5	1	J	0.89	0.18	0.5	1	J	0.39	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.2		0.019	0.05	0.1	1.3	0.019	0.05	0.1		1.1	0.019	0.05	0.1		2.3	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	85		0.23	0.5	5	57	0.23	0.5	5		66	0.23	0.5	5		62	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.8		0.16	0.5	1	5.6	0.16	0.5	1		4.6	0.16	0.5	1		3.8	1	
Alkalinity SM 2320B (mg/L)	380		1.1	3.2	5	400	1.1	3.2	5		350	1.1	3.2	5		280	5	
Methane RSK-175 (µg/L)	7300		0.22	0.8	5	11000	0.22	0.8	5		11000	0.22	0.8	5		7000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	168.9		1.1	3.2	5	177.8	1.1	3.2	5		155.6	1.1	3.2	5		124.4	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-44
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0081			G0081			G0081			G0081			G0081		
COLLECT DATE	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	1.24	0.25		1.17	0.25		1.99	0.25		1.9	0.1		2.2	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.35	1	J	<	1	UJ	2.61	1		2.1	1		2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.12	0.1		0.99	0.1		0.996	0.1		2.4	0.1		3.9	0.5	
Sulfide SM 9034 (mg/L)	0.401	2	J	0.4	2	J	0.2	2	J	4.6	1		<	1	U
Sulfate USEPA 9056A (mg/L)	64.4	1		64.5	1		94.7	5		55	25		80	20	
Dissolved Organic Carbon SM 9060A (mg/L)	3.11	1		3.67	1		2.62	1		1.7	1		2.1	1	
Alkalinity SM 2320B (mg/L)	300	1.25		280	1.25		235	1		260	5		240	20	
Methane RSK-175 (µg/L)	3400	100		1900	100		900	50		230	5		16	0.31	
Carbon Dioxide SM 2320B (mg/L)[1]	133	10		124.4	1.25		104	0.4		120	2.2		100	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-45
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0082					G0082					G0082					G0082				
COLLECT DATE	5/20/2021					6/2/2020					6/9/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.19		0.022	0.05	0.1	0.11		0.022	0.05	0.1	0.022	J	0.022	0.05	0.1	0.03	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.96	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	0.99	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.8		0.019	0.05	0.1	0.46		0.019	0.05	0.1	1.9		0.019	0.05	0.1	0.47		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	99		1	2.5	5	130		1	3	5	82	J	1	3	5	120		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.9		0.35	0.8	1	4		0.35	1	1	3		0.16	0.5	1	4.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	370		3.1	6.4	10	260		3.1	10	10	230		3.1	10	10	290		1.1	3.2	5
Methane RSK-175 (µg/L)	850		0.63	2	5	460		0.63	2	5	200		0.63	2	5	2900	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	164		3.1	6.4	10	116		3.1	10	10	102		3.1	10	10	129		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-45
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0082					G0082					G0082					G0082		
COLLECT DATE	3/31/2017					8/12/2016					8/17/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.082	J	0.022	0.05	0.1	0.081	0.022	0.05	0.1	J	0.072	0.022	0.05	0.1	J	0.023	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.4		0.019	0.05	0.1	2.3	0.019	0.05	0.1		3.3	0.019	0.05	0.1		5.5	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	120		0.23	0.5	5	93	0.23	0.5	5		50	0.23	0.5	5		57	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.4		0.16	0.5	1	4	0.16	0.5	1		3.7	0.16	0.05	1	J	2.8	1	
Alkalinity SM 2320B (mg/L)	330		1.1	3.2	5	300	1.1	3.2	5		290	1.1	3.2	5		250	5	
Methane RSK-175 (µg/L)	3100		0.22	0.8	5	2900	0.22	0.8	5		2200	0.22	0.8	5		770	5	
Carbon Dioxide SM 2320B (mg/L)[1]	146.7		1.1	3.2	5	133.3	1.1	3.2	5		128.9	1.1	3.2	5		111.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-45
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0082			G0082			G0082			G0082			G0082		
COLLECT DATE	3/14/2013			3/12/2012			3/15/2011			3/15/2010			3/17/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.395	0.25		0.186	0.25	J	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.141	1	J	<	1	UJ	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.19	0.1		4.48	0.1		6.82	0.1		5	0.1		5.5	0.5	
Sulfide SM 9034 (mg/L)	0.401	2	J	0.6	2	J	0.2	2	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	18.7	1		81.7	2		85.7	5		70	25		70	20	
Dissolved Organic Carbon SM 9060A (mg/L)	2.64	1		2.83	1		2.52	1		1.8	1		2.4	1	
Alkalinity SM 2320B (mg/L)	275	1.25		250	1.25		225	1		250	5		240	20	
Methane RSK-175 (µg/L)	2900	100		1300	100		440	25		850	10		1200	5.1	
Carbon Dioxide SM 2320B (mg/L)[1]	122	10		111.1	1.25		100	0.4		110	2.2		100	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-46
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0083					G0083					G0083					G0083				
COLLECT DATE	5/21/2021					6/14/2020					6/8/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.7		0.022	0.05	0.1	2.4		0.022	0.05	0.1	1.7		0.022	0.05	0.1	1		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.8		0.69	1	1	2.8		0.69	1	1	2.2		0.69	1	1	1.4	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	280		5.2	13	25	200		5.2	15	25	200	J	5.2	15	25	220	J	1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	4.2		0.35	0.8	1	5.2		0.35	1	1	4.3		0.16	0.5	1	3.5		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	490		3.1	6.4	10	540		3.1	10	10	580		3.1	10	10	460		1.1	3.2	5
Methane RSK-175 (µg/L)	130		0.63	2	5	46		0.63	2	5	80		0.63	2	5	44	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	218		3.1	6.4	10	240		3.1	10	10	258		3.1	10	10	204		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-46
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0083					G0083					G0083					G0083		
COLLECT DATE	3/30/2017					8/16/2016					8/12/2015					8/8/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	3.7		0.022	0.05	0.1	2.4	0.022	0.05	0.1		2.5	0.022	0.05	0.1		2.3	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.8		0.18	0.5	1	2.1	0.18	0.5	1	J	1.7	0.18	0.5	1		1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.041	J	0.019	0.05	0.1	0.96	0.019	0.05	0.1		0.062	0.019	0.05	0.1	J	0.53	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	260		1.2	2.5	25	150	0.23	0.5	5		210	1.2	2.5	25		170	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3		0.16	0.5	1	2.5	0.16	0.5	1		2.6	0.16	0.5	1		2.7	1	
Alkalinity SM 2320B (mg/L)	370		1.1	3.2	5	320	1.1	3.2	5		300	1.1	3.2	5		320	5	
Methane RSK-175 (µg/L)	37		0.22	0.8	5	6.4	0.22	0.8	5		14	0.22	0.8	5		19	5	
Carbon Dioxide SM 2320B (mg/L)[1]	164.4		1.1	3.2	5	142.2	1.1	3.2	5		133.3	1.1	3.2	5		142.2	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-46
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0083			G0083			G0083			G0083			G0083		
COLLECT DATE	3/14/2013			3/13/2012			3/15/2011			3/17/2010			3/18/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	3.37	0.25		5.38	0.25		7.58	0.25		4.9	0.1		4.7	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.35	1	J	9.1	1		8.94	1		5.8	1		5	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.716	0.1		<	0.1	U	<	0.1	UJ	<	0.1	U	0.81	0.05	
Sulfide SM 9034 (mg/L)	<	2	U	0.6	2	J	0.2	2	J	0.96	1	J	<	1	U
Sulfate USEPA 9056A (mg/L)	34.3	1		140	10		96.7	5		140	25		83	20	
Dissolved Organic Carbon SM 9060A (mg/L)	2.55	1		3.27	1		3.36	1		1.9	1		2.8	1	
Alkalinity SM 2320B (mg/L)	275	1.25		340	1.25		345	1		310	5		350	20	
Methane RSK-175 (µg/L)	38	5		120	5		620	25		1500	25		1000	0.31	
Carbon Dioxide SM 2320B (mg/L)[1]	122	10		151.1	1.25		153	0.4		130	2.2		150	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-47
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0084					G0084					G0084					G0084				
COLLECT DATE	5/24/2021					6/13/2020					6/8/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.18		0.022	0.05	0.1	0.48		0.022	0.05	0.1	0.3		0.022	0.05	0.1	0.97		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.97	J	0.69	1	1	1.1		0.69	1	1	0.88	J	0.69	1	1	1.5	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.42		0.019	0.05	0.1	0.33		0.019	0.05	0.1	3.6		0.019	0.05	0.1	0.03	J	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	100		1	2.5	5	120		1	3	5	73	J	1	3	5	41		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.4		0.35	0.8	1	5.4		0.35	1	1	4.5		0.16	0.5	1	5.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	450		3.1	6.4	10	410		3.1	10	10	460		3.1	10	10	420		1.1	3.2	5
Methane RSK-175 (µg/L)	8300		0.63	2	5	12000		1.9	6	15	6600	J	1.9	6	15	18000	J	0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	200		3.1	6.4	10	182		3.1	10	10	204		3.1	10	10	187		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-47
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0084					G0084					G0084					G0084		
COLLECT DATE	3/28/2017					8/9/2016					8/11/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	2.7	J	0.022	0.05	0.1	9	0.11	0.25	0.5		1.4	0.022	0.01	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.2		0.18	0.5	1	14	0.36	1	2		2.6	0.18	0.5	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.33		0.019	0.05	0.1	<	0.19	0.5	1	U	1.4	0.019	0.05	0.1		7.5	0.1	
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	40		0.23	0.5	5	23	0.23	0.5	5		53	0.23	0.5	5		42	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.7		0.16	0.5	1	150	0.78	2.5	5		23	0.16	0.5	1		2.4	6	
Alkalinity SM 2320B (mg/L)	350		1.1	3.2	5	400	1.1	3.2	5		340	1.1	3.2	5		240	5	
Methane RSK-175 (µg/L)	19000		0.44	1.6	5	17000	0.44	1.6	10		270	0.22	0.8	5		51	5	
Carbon Dioxide SM 2320B (mg/L)[1]	155.6		1.1	3.2	5	177.8	1.1	3.2	5		151.1	1.1	3.2	5		106.7	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-47
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0084			G0084			G0084			G0084			G0084		
COLLECT DATE	3/18/2013			3/14/2012			3/14/2011			3/17/2010			3/14/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.157	0.25	J	<	0.25	U	<	0.25	UJ	0.071	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.073	1	J	<	1	UJ	<	1	UJ	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.15	0.1		8.77	0.1		5.56	0.1		3.3	0.1		0.58	0.5	
Sulfide SM 9034 (mg/L)	0.802	2	J	0.8	2	J	0.4	2	J	1.1	1	J	<	1	U
Sulfate USEPA 9056A (mg/L)	45.9	1		44.7	1		68.2	1		44	5		48	20	
Dissolved Organic Carbon SM 9060A (mg/L)	2.19	1		2.86	1		2.26	1		<	1	U	2.4	1	
Alkalinity SM 2320B (mg/L)	227	1.25		230	1.25		195	1		210	5		190	20	
Methane RSK-175 (µg/L)	12	5		<	5	U	200	5		0.4	5	J	3.8	0.31	
Carbon Dioxide SM 2320B (mg/L)[1]	122	10		102.2	1.25		87	0.4		91	2.2		84	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-48
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0085					G0085					G0085					G0085				
COLLECT DATE	5/19/2021					6/13/2020					6/7/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.3		0.022	0.05	0.1	0.66		0.022	0.05	0.1	0.6		0.022	0.05	0.1	1.6		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.82	J	0.69	1	1	0.89	J	0.69	1	1	1.1		0.69	1	1	2	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.037	J	0.019	0.05	0.1	5.7		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	3.2	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	190		5.2	13	25	210		2.1	6	10	200	J	1	3	5	130		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.1		0.35	0.8	1	4		0.35	1	1	4.2		0.16	0.5	1	5.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	380		3.1	6.4	10	400		3.1	10	10	450		3.1	10	10	440		1.1	3.2	5
Methane RSK-175 (µg/L)	6500		0.63	2	5	4600	J	0.63	2	5	3400		0.63	2	5	12000	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	169		3.1	6.4	10	178		3.1	10	10	200		3.1	10	10	196		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-48
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0085					G0085					G0085					G0085		
COLLECT DATE	3/28/2017					8/15/2016					8/11/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.9	J	0.022	0.05	0.1	3.2	0.11	0.25	0.5		1.1	0.044	0.1	0.2		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.8		0.18	0.5	1	4.3	0.18	0.5	1		4.3	0.18	0.5	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.3		0.019	0.05	0.1	0.62	0.019	0.05	0.1		5.2	0.019	0.05	0.1		14	0.1	
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	100		0.23	0.5	5	62	0.23	0.5	5		94	0.23	0.5	5		65	5	
Dissolved Organic Carbon SM 9060A (mg/L)	5.8		0.16	0.5	1	30	0.16	0.5	1		250	0.93	3	6		2.8	1	
Alkalinity SM 2320B (mg/L)	380		1.1	3.2	5	460	1.1	3.2	5		390	1.1	3.2	5		300	5	
Methane RSK-175 (µg/L)	18000		0.44	1.6	5	19000	0.44	1.6	10		5300	0.22	0.8	5		1300	5	
Carbon Dioxide SM 2320B (mg/L)[1]	168.9		1.1	3.2	5	204.4	1.1	3.2	5		173.3	1.1	3.2	5		133.3	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-48
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0085			G0085			G0085			G0085			G0085		
COLLECT DATE	3/21/2013			3/14/2012			3/11/2011			3/17/2010			3/14/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	<	0.25	UJ	<	0.25	UJ	0.11	0.1	J	0.18	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.181	1	J	0.421	1	J	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.9	0.1		9.27	0.1		4.58	0.1		7.7	0.1		<	0.5	U
Sulfide SM 9034 (mg/L)	0.401	2	J	0.6	2	J	0.2	2	J	4	1		<	1	U
Sulfate USEPA 9056A (mg/L)	63.3	1		72.2	1		84.8	5		60	25		66	20	
Dissolved Organic Carbon SM 9060A (mg/L)	3.68	1		2.61	1		2.74	1		4.1	1		2.8	1	
Alkalinity SM 2320B (mg/L)	430	1.25		250	1.25		225	1		320	5		260	20	
Methane RSK-175 (µg/L)	2400	24		200	5		2000	50		7500	100		3200	5.1	
Carbon Dioxide SM 2320B (mg/L)[1]	191	10		111.1	1.25		100	0.4		140	2.2		120	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-49
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0086					G0086					G0086					G0086				
COLLECT DATE	5/26/2021					6/16/2020					6/9/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.025	J	0.022	0.05	0.1	0.029	J	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.4		0.019	0.05	0.1	6.5		0.019	0.05	0.1	3.4		0.019	0.05	0.1	5.4		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	180		1	2.5	5	130		1	3	5	160	J	1	3	5	140		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3		0.35	0.8	1	3.6		0.35	1	1	2.5		0.16	0.5	1	2.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	310		3.1	6.4	10	280		3.1	10	10	290		3.1	10	10	240		1.1	3.2	5
Methane RSK-175 (µg/L)	14		0.63	2	5	22		0.63	2	5	72	J	0.63	2	5	9.5		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	138		3.1	6.4	10	124		3.1	10	10	129		3.1	10	10	107		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-49
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0086					G0086					G0086					G0086		
COLLECT DATE	3/29/2017					8/11/2016					8/13/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	0.041	0.022	0.05	0.1	J	0.024	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	UJ	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.9		0.019	0.05	0.1	3.8	0.019	0.05	0.1		4.2	0.038	0.1	0.2		2.1	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	130		0.23	0.5	5	130	0.23	0.5	5		110	0.23	0.5	5		99	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.4		0.16	0.5	1	2.4	0.16	0.5	1		2.4	0.16	3	1		2.4	1	
Alkalinity SM 2320B (mg/L)	250		1.1	3.2	5	240	1.1	3.2	5		230	1.1	3.2	5		250	5	
Methane RSK-175 (µg/L)	220		0.22	0.8	5	180	0.22	0.8	5		390	0.22	0.8	5		920	5	
Carbon Dioxide SM 2320B (mg/L)[1]	111.1		1.1	3.2	5	106.7	1.1	3.2	5		102.2	1.1	3.2	5		111.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-49
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0086			G0086			G0086			G0086		
COLLECT DATE	3/13/2013			3/13/2012			3/16/2011			3/17/2010		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.227	0.25	J	0.198	0.25	J	<	0.25	UJ	0.054	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	930	50		1.9	1	J	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.38	0.1		1.83	0.1		3.87	0.1		4.7	0.1	
Sulfide SM 9034 (mg/L)	0.401	2	J	0.6	2	J	0.4	2	J	5.5	1	
Sulfate USEPA 9056A (mg/L)	79.5	1		73.1	1		75	2		61	25	
Dissolved Organic Carbon SM 9060A (mg/L)	2.84	1		2.47	1		2.64	1		2	1	
Alkalinity SM 2320B (mg/L)	268	1.25		235	1.25		225	1		230	5	
Methane RSK-175 (µg/L)	1100	5		400	25		200	5		690	5	
Carbon Dioxide SM 2320B (mg/L)[1]	119	10		104.4	1.25		100	0.4		100	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-50
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0087					G0087					G0087					G0087				
COLLECT DATE	5/25/2021					6/15/2020					6/9/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.032	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	1.1		0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.2		0.019	0.05	0.1	2.7		0.019	0.05	0.1	0.22		0.019	0.05	0.1	0.98		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	110		1	2.5	5	110		1	3	5	120	J	1	3	5	94		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	2.8		0.35	0.8	1	2.9		0.35	1	1	2.6		0.16	0.5	1	2.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	290		3.1	6.4	10	310		3.1	10	10	280		3.1	10	10	240		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	0.92	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	129		3.1	6.4	10	138		3.1	10	10	124		3.1	10	10	107		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-50
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0087					G0087					G0087					G0087		
COLLECT DATE	3/29/2017					8/9/2016					8/13/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.05	0.1	U	0.025	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.29	0.18	0.5	1	J	1.4	0.18	0.5	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.6		0.019	0.05	0.1	0.32	0.019	0.05	0.1		1.5	0.019	0.05	0.1		0.97	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	75	J	0.23	0.5	5	56	0.23	0.5	5		64	0.23	0.5	5		71	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5		0.16	0.5	1	2.5	0.16	0.5	1		2.7	0.16	0.5	1		2.8	1	
Alkalinity SM 2320B (mg/L)	240		1.1	3.2	5	210	1.1	3.2	5		210	1.1	3.2	5		240	5	
Methane RSK-175 (µg/L)	3.7	J	0.22	0.8	5	17	0.22	0.8	5		2.5	0.22	0.8	5	J	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	106.7		1.1	3.2	5	93.33	1.1	3.2	5		93.33	1.1	3.2	5		106.7	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-50
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0087			G0087			G0087			G0087		
COLLECT DATE	3/13/2013			3/13/2012			3/16/2011			3/17/2010		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.467	0.25		0.196	0.25	J	<	0.25	UJ	0.042	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.446	1	J	<	1	UJ	<	1	UJ	0.26	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.005	0.1	J	<	0.1	U	<	0.1	UJ	<	0.1	U
Sulfide SM 9034 (mg/L)	0.2	2	J	0.6	2	J	0.2	2	J	3.2	1	
Sulfate USEPA 9056A (mg/L)	48	1		52.7	1		60.6	1		34	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.05	1		2.77	1		2.87	1		2.1	1	
Alkalinity SM 2320B (mg/L)	228	1.25		180	1.25		155	1		210	5	
Methane RSK-175 (µg/L)	13	5		40	5		240	5		3600	50	
Carbon Dioxide SM 2320B (mg/L)[1]	101	10		80	1.25		69	0.4		92	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-51
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0088					G0088					G0088					G0088				
COLLECT DATE	5/20/2021					6/15/2020					6/9/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.067	J	0.022	0.05	0.1	0.088	J	0.022	0.05	0.1	0.092	J	0.022	0.05	0.1	0.02	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	10
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.81		0.019	0.05	0.1	1.2		0.019	0.05	0.1	0.35		0.019	0.05	0.1	4.1		0.02	0.05	5
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	UJ	10	10	10
Sulfate USEPA 9056A (mg/L)	260		5.2	13	25	190		5.2	15	25	210	J	5.2	15	25	140		0.23	0.5	1
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.35	0.8	1	2.5		0.35	1	1	2.7		0.16	0.5	1	2.4		0.16	0.5	5
Alkalinity SM 2320B (mg/L)	300		3.1	6.4	10	280		3.1	10	10	320		3.1	10	10	290		1.1	3.2	1
Methane RSK-175 (µg/L)	11		0.63	2	5	2.9	J	0.63	2	5	40	J	0.63	2	5	290	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	133		3.1	6.4	10	124		3.1	10	10	142		3.1	10	10	129		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-51
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0088					G0088					G0088					G0088		
COLLECT DATE	3/31/2017					8/16/2016					8/14/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.025	0.022	0.05	0.1	J	<	0.022	0.05	0.1	UJ	<	0.1	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.5	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.1		0.019	0.05	0.1	3.8	0.019	0.05	0.1		1.1	0.019	0.05	0.1		4.1	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	140		0.23	0.5	5	130	0.23	0.5	5		140	0.23	0.5	5		98	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.4		0.16	0.5	1	2.7	0.16	0.5	1		2.3	0.16	0.5	1		2.5	1	
Alkalinity SM 2320B (mg/L)	290		1.1	3.2	5	260	1.1	3.2	5		230	1.1	3.2	5		230	5	
Methane RSK-175 (µg/L)	70		0.22	0.8	5	140	0.22	0.8	5		320	0.22	0.8	5		360	5	
Carbon Dioxide SM 2320B (mg/L)[1]	128.9		1.1	3.2	5	115.6	1.1	3.2	5		102.2	1.1	3.2	5		102.2	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-51
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0088			G0088			G0088			G0088		
COLLECT DATE	3/14/2013			3/13/2012			3/14/2011			3/18/2010		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.987	0.25		<	0.25	UJ	<	0.25	UJ	0.068	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.389	1	J	1.5	1		<	1	UJ	0.21	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.57	0.1		<	0.1	U	0.692	0.1		3.7	0.1	J
Sulfide SM 9034 (mg/L)	<	2	U	0.6	2	J	0.4	2	J	1.2	1	
Sulfate USEPA 9056A (mg/L)	21.8	1		113	10		84.4	5		64	25	
Dissolved Organic Carbon SM 9060A (mg/L)	2.17	1		2.44	1		2.46	1		1.9	1	
Alkalinity SM 2320B (mg/L)	245	1.25		240	1.25		245	1		280	5	
Methane RSK-175 (µg/L)	950	50		300	10		1500	50		340	5	
Carbon Dioxide SM 2320B (mg/L)[1]	109	10		106.7	1.25		109	0.4		120	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-52
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0089					G0089					G0089					G0089				
COLLECT DATE	5/20/2021					6/15/2020					6/11/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.11		0.022	0.05	0.1	0.16		0.022	0.05	0.1	0.09		0.022	0.05	0.1	0.12	J	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.84	J	0.69	1	1	1.4		0.69	1	1	0.8		0.69	1	1	0.85	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.5		0.019	0.05	0.1	0.88		0.019	0.05	0.1	2		0.019	0.05	0.1	4.8		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	100		1	2.5	5	110		1	3	5	83		1	3	5	69		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.5		0.35	0.8	1	5.8		0.35	1	1	5.2		0.16	0.5	1	5.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	370		3.1	6.4	10	330		3.1	10	10	380		3.1	10	10	390		1.1	3.2	5
Methane RSK-175 (µg/L)	2100		0.63	2	5	3400		0.63	2	5	4900		0.63	2	5	9400		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	164		3.1	6.4	10	147		3.1	10	10	169		3.1	10	10	173.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-52
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0089					G0089					G0089					G0089		
COLLECT DATE	3/31/2017					8/8/2016					8/17/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.12		0.022	0.05	0.1	0.12	0.022	0.05	0.1		0.16	0.022	0.05	0.1		0.2	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	1	0.18	0.5	1		0.42	0.18	0.5	1	J	0.25	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.2		0.019	0.05	0.1	3.6	0.019	0.05	0.1		3.4	0.038	0.1	0.2		2.4	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	72		0.23	0.5	5	66	0.23	0.5	5		72	0.23	0.5	5		63	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.8		0.16	0.5	1	5.8	0.16	0.5	1		3.6	0.16	0.5	1		4.3	1	
Alkalinity SM 2320B (mg/L)	360		1.1	3.2	5	380	1.1	3.2	5		300	1.1	3.2	5		300	5	
Methane RSK-175 (µg/L)	6100		0.22	0.8	5	6400	0.22	0.8	5		5000	0.22	0.8	5		8200	5	
Carbon Dioxide SM 2320B (mg/L)[1]	160		1.1	3.2	5	168.9	1.1	3.2	5		133.3	1.1	3.2	5		133.3	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-52
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0089			G0089			G0089			G0089		
COLLECT DATE	3/14/2013			3/13/2012			3/14/2011			3/19/2010		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.999	0.25		0.351	0.25		0.206	0.25	J	0.15	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	0.396	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.45	0.1		4.55	0.1		3.11	0.1		6.4	0.1	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.4	2	J	0.2	2	J	<	4	U
Sulfate USEPA 9056A (mg/L)	68	1		60.8	1		64.8	1		56	25	
Dissolved Organic Carbon SM 9060A (mg/L)	3.31	1		2.97	1		2.74	1		2	1	
Alkalinity SM 2320B (mg/L)	235	1.25		260	1.25		240	1		240	5	
Methane RSK-175 (µg/L)	2000	100		760	25		960	25		360	5	
Carbon Dioxide SM 2320B (mg/L)[1]	104	10		115.6	1.25		107	0.4		110	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-53
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0090					G0090					G0090					G0090				
COLLECT DATE	5/20/2021					6/16/2020					6/9/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.026	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	1.1		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.1		0.019	0.05	0.1	3.1		0.019	0.05	0.1	2.9		0.019	0.05	0.1	1.2		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	150		1	2.5	5	120		1	2.5	5	130	J	1	3	5	110		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.5		0.35	0.8	1	3.6		0.35	1	1	3.8		0.16	0.5	1	4.4		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	310		3.1	6.4	10	280		3.1	10	10	310		3.1	10	10	300		1.1	3.2	5
Methane RSK-175 (µg/L)	17		0.63	2	5	<	U	0.63	2	5	69		0.63	2	5	870		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	138		3.1	6.4	10	124		3.1	10	10	138		3.1	10	10	133		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-53
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0090					G0090					G0090					G0090			G0090	
COLLECT DATE	3/31/2017					8/12/2016					8/17/2015					8/19/2014			3/18/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.036	J	0.022	0.05	0.1	<	0.022	0.050	0.10	U	<	0.022	0.05	0.1	U	<	0.1	UJ	3.33	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.50	1.0	U	<	0.18	0.5	1	UJ	<	1	U	7.3	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.2		0.019	0.05	0.1	7.6	0.095	0.25	0.50		5.4	0.038	0.1	0.2		9.1	0.1		<	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4.0	U	<	0.79	1.9	4	U	<	4	U	0.2	2
Sulfate USEPA 9056A (mg/L)	110		0.23	0.5	5	75	0.23	0.50	5.0		60	0.23	0.5	5		76	5		27.5	1
Dissolved Organic Carbon SM 9060A (mg/L)	4.4		0.16	0.5	1	3.2	0.16	0.50	1.0		3.5	0.16	0.5	1		3	1		8.18	1
Alkalinity SM 2320B (mg/L)	330		1.1	3.2	5	270	1.1	3.2	5.0		320	1.1	3.2	5		310	5		292	1.25
Methane RSK-175 (µg/L)	790		0.22	0.8	5	580	0.22	0.80	5.0		1900	0.22	0.8	5		250	5		350	25
Carbon Dioxide SM 2320B (mg/L)[1]	146.7		1.1	3.2	5	120	1.1	3.2	5.0		142.2	1.1	3.2	5		137.8	5		130	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-53
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090-NATURAL ATTENUATION PARAMETERS

FIELD ID		G0090			G0090			G0090		
COLLECT DATE		3/13/2012			3/14/2011			3/19/2010		
	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS										
Ammonia USEPA 350.1 (mg/L)		<	0.25	UJ	<	0.25	UJ	0.033	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	1	UJ	0.5	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	U	7.99	0.1		7.82	0.1		8.5	0.1	
Sulfide SM 9034 (mg/L)	J	0.4	2	J	0.4	2	J	<	4	U
Sulfate USEPA 9056A (mg/L)		81.2	2		85.1	5		82	25	
Dissolved Organic Carbon SM 9060A (mg/L)		2.72	1		2.61	1		2.1	1	
Alkalinity SM 2320B (mg/L)		265	1.25		205	1		280	5	
Methane RSK-175 (µg/L)		39	5		<	5	UJ	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]		117.8	10		91	0.4		120	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-54
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0091					G0091					G0091					G0091				
COLLECT DATE	5/24/2021					6/16/2020					6/11/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	UJ	0.022	0.05	0.1	<	U	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	UJ	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	38		0.095	0.25	0.5	40		0.48	1.3	2.5	35		0.19	0.5	1.0	45		0.19	0.5	1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	200		1	2.5	5	190		1	3	5	220		5.2	15	25	180		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.1		0.35	0.8	1	3.8		0.35	1	1	3.2		0.16	0.5	1	3.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	270		3.1	6.4	10	280		3.1	10	10	360		3.1	10	10	330		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	UJ	0.63	2	5	<	UJ	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	120		3.1	6.4	10	124		3.1	10	10	160		3.1	10	10	146.7		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-54
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0091					G0091					G0091					G0091		
COLLECT DATE	4/1/2017					8/16/2016					8/12/2015					8/13/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.05	0.1	U	0.026	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	49		0.19	0.05	0.1	48	0.19	0.5	1		37	0.19	0.5	1		34	0.5	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	150		0.23	0.5	5	130	0.23	0.5	5		110	0.23	0.5	5		110	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.5		0.16	0.5	1	3.4	0.16	0.5	1		3	0.16	0.5	1		3	1	
Alkalinity SM 2320B (mg/L)	320		1.1	3.2	5	310	1.1	3.2	5		270	1.1	3.2	5		270	5	
Methane RSK-175 (µg/L)	<	U	0.22	0.8	5	<	0.22	0.8	5	U	<	0.22	0.8	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	142.2		1.1	3.2	5	137.8	1.1	3.2	5		120	1.1	3.2	5		120	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-54
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0091			G0091			G0091		
COLLECT DATE	3/13/2013			3/7/2012			3/9/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	0.03	0.25	J	<	0.25	UJ	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	22.9	0.1		26	0.1		21.5	0.1	
Sulfide SM 9034 (mg/L)	<	2	U	0.6	2	J	<	2	U
Sulfate USEPA 9056A (mg/L)	132	5		114	5		128	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.18	1		4.24	1		3.86	1	
Alkalinity SM 2320B (mg/L)	268	1.25		200	1.25	J	230	1	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]	119	10		88.89	1.25	J	102	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-55
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0092					G0092					G0092					G0092				
COLLECT DATE	5/24/2021					6/16/2020					6/11/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.031	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	UJ	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.18		0.019	0.05	0.1	<	U	0.019	0.05	0.1	2.4		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	350		5.2	13	25	330		5.2	15	25	320		5.2	15	25	270		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	2.7		0.35	0.8	1	2.9		0.35	1	1	2.6		0.16	0.5	1	2.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	360		3.1	6.4	10	350		3.1	10	10	380		3.1	10	10	340		1.1	3.2	5
Methane RSK-175 (µg/L)	3.6	J	0.63	2	5	18		0.63	2	5	0.95	J	0.63	2	5	0.93	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	160		3.1	6.4	10	156		3.1	10	10	169		3.1	10	10	151.1		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-55
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0092					G0092					G0092					G0092		
COLLECT DATE	4/1/2017					8/16/2016					8/12/2015					8/13/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.05	0.1	UJ	0.034	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.5	1	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.8		0.019	0.05	0.1	2.7	0.019	0.05	0.1		1	0.019	0.5	1		1.3	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	260		1.2	2.5	25	270	1.2	2.5	25		260	1.2	2.5	25		200	25	
Dissolved Organic Carbon SM 9060A (mg/L)	2.7		0.16	0.5	1	2.7	0.16	0.5	1		2.3	0.16	0.5	1		2.2	1	
Alkalinity SM 2320B (mg/L)	340		1.1	3.2	5	350	1.1	3.2	5		330	1.1	3.2	5		330	5	
Methane RSK-175 (µg/L)	1	J	0.22	0.8	5	0.96	0.22	0.8	5	J	1.2	0.22	0.8	5	J	1.1	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	151.1		1.1	3.2	5	155.6	1.1	3.2	5		146.7	1.1	3.2	5		146.7	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-55
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0092			G0092			G0092		
COLLECT DATE	3/13/2013			3/7/2012			3/9/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	0.415	0.25		0.16	0.25	J	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	UJ	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.43	0.1		1.14	0.1		0.047	0.1	J
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)	223	10		218	10		229	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.2	1		3.05	1		2.69	1	
Alkalinity SM 2320B (mg/L)	385	1.25		240	1.25	J	345	1	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]	171	10		106.7	1.25	J	153	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-56
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0093					G0093					G0093					G0093				
COLLECT DATE	5/21/2021					6/16/2020					6/11/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.63		0.022	0.05	0.1	1.2		0.022	0.05	0.1	0.8	J	0.022	0.05	0.1	0.52		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	1.5		0.69	1	1	1	J	0.69	1	1	1		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.4		0.019	0.05	0.1	0.3		0.019	0.05	0.1	<	UJ	0.019	0.05	0.1	3.3		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	110		1	2.5	5	140		1	3	5	84		1	3	5	62		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4		0.35	0.8	1	5.4		0.35	1	1	3.8		0.16	0.5	1	4.9		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	330		3.1	6.4	10	350		3.1	10	10	310		3.1	10	10	300		1.1	3.2	5
Methane RSK-175 (µg/L)	3500		0.63	2	5	5800		0.63	2	5	9400	J	1.9	6	15	20000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	147		3.1	6.4	10	156		3.1	10	10	138		3.1	10	10	133.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-56
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0093					G0093					G0093					G0093		
COLLECT DATE	3/31/2017					8/15/2016					8/14/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.2		0.022	0.05	0.1	1.2	0.11	0.25	0.5		0.064	0.022	0.05	0.1	J	0.045	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	5.7	0.18	0.5	1		0.37	0.18	0.5	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.5		0.019	0.05	0.1	3.7	0.019	0.05	0.1		0.25	0.019	0.05	0.1		<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	1.4	4	J
Sulfate USEPA 9056A (mg/L)	37		0.23	0.5	5	31	0.23	0.5	5		85	0.23	0.5	5		110	5	J
Dissolved Organic Carbon SM 9060A (mg/L)	4.5		0.16	0.5	1	110	0.46	1.5	2.9		2	0.16	0.5	1		2	1	
Alkalinity SM 2320B (mg/L)	320		1.1	3.2	5	210	1.1	3.2	5		230	1.1	3.2	5		250	5	J
Methane RSK-175 (µg/L)	22000		0.44	1.6	10	6000	0.22	0.8	5		2400	0.22	0.8	5		290	5	
Carbon Dioxide SM 2320B (mg/L)[1]	142.2		1.1	3.2	5	93.33	1.1	3.2	5		102.2	1.1	3.2	5		111.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-56
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0093			G0093			G0093		
COLLECT DATE	3/19/2013			3/13/2012			3/14/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	0.731	0.25		<	0.25	UJ	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.377	1		<	1	UJ	0.442	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.7	0.1	U	0.789	0.1		1.72	0.1	
Sulfide SM 9034 (mg/L)	0.601	2	J	0.4	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)	56.4	1		56.8	1		58.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2.7	1		2.64	1		2.41	1	
Alkalinity SM 2320B (mg/L)	246	1.25		250	1.25		305	1	
Methane RSK-175 (µg/L)	630	39		830	50		850	25	
Carbon Dioxide SM 2320B (mg/L)[1]	109	10		111.1	1.25		136	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-57
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0094					G0094					G0094					G0094				
COLLECT DATE	5/25/2021					6/15/2020					6/11/2019					3/23/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	4.2		0.022	0.05	0.1	6.1		0.11	0.25	0.5	4.8		0.022	0.05	0.1	6		0.044	0.1	0.2
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.5		0.69	1	1	6.9					8.7		0.69	1	1	8.7		0.45	1.3	2.5
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.48	1.3	2.5	1		0.019	0.05	0.1	5.3		0.019	0.05	0.1	5.7		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	89		1	2.5	5	59		1	3	5	72		1	3	5	45		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	6.5		0.35	0.8	1	5.8		0.35	1	1	7.2		0.16	0.5	1	8.9		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	340		3.1	6.4	10	290		3.1	10	10	320		3.1	10	10	300		1.1	3.2	5
Methane RSK-175 (µg/L)	13000		0.63	2	5	19000		0.63	2	5	12000		1.9	6	15	23000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	151		3.1	6.4	10	129		3.1	10	10	142		3.1	10	10	133.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-57
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0094					G0094					G0094					G0094		
COLLECT DATE	3/24/2017					8/12/2016					8/12/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	6.9		0.11	0.25	0.5	6.8	0.11	0.25	0.5		5.6	0.044	0.1	0.2		6.6	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	9.6		0.18	0.5	1	7.9	0.18	0.5	1		5.6	0.18	0.5	1		5.6	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.6		0.019	0.05	0.1	0.41	0.019	0.05	0.1		<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	0.96	4	J
Sulfate USEPA 9056A (mg/L)	65		0.23	0.5	5	49	0.23	0.5	5		31	0.23	0.5	5		15	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.2		0.16	0.5	1	9.5	0.16	0.5	1		8.9	0.16	0.5	1		8.2	1	
Alkalinity SM 2320B (mg/L)	270		1.1	3.2	5	230	1.1	3.2	5		200	1.1	3.2	5		160	5	
Methane RSK-175 (µg/L)	20000		0.44	1.6	10	20000	0.44	1.6	10		18000	0.44	1.6	10		19000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	120		1.1	3.2	5	102.2	1.1	3.2	5		88.89	1.1	3.2	5		71.11	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-57
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0094			G0094			G0094		
COLLECT DATE	3/18/2013			3/14/2012			3/11/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	10.2	0.25		7.38	0.25		0.273	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	17.8	1		33.3	1		0.755	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	0.075	0.1	J	0.533	0.1	
Sulfide SM 9034 (mg/L)	<	2	U	1.2	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)	4.1	1		21.9	10		25.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)	8.5	1		693	1		15.4	1	
Alkalinity SM 2320B (mg/L)	234	1.25		46	1.25		165	1	
Methane RSK-175 (µg/L)	11000	250		7600	250		2000	50	
Carbon Dioxide SM 2320B (mg/L)[1]	104	10		20.44	1.25		73	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-58
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0095					G0095					G0095					G0095				
COLLECT DATE	5/23/2021					6/12/2020					6/7/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	2.3		0.22	0.5	1.0	2.1		0.022	0.05	0.1	2.9		0.022	0.05	0.1	2.4		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.9		0.69	1	1	<	U	0.69	1	1	4.3		0.69	1	1	4		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.38		0.019	0.05	0.1	0.41		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	530		5.2	13	25	340		5.2	15	25	360	J	5.2	15	25	190		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	12		0.35	0.8	1	12		0.35	1	1	7.7		0.16	0.5	1	8.2		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	800		3.1	6.4	10	730		3.1	10	10	670		3.1	10	10	630		1.1	3.2	5
Methane RSK-175 (µg/L)	10000		0.63	2	5	6900		0.63	2	5	14000		1.9	6	15	19000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	356		3.1	6.4	10	324		3.1	10	10	298		3.1	10	10	280		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-58
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0095					G0095					G0095					G0095		
COLLECT DATE	3/27/2017					8/10/2016					8/17/2015					8/11/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	3.6	J	0.022	0.05	0.1	2.5	0.022	0.05	0.1		0.55	0.022	0.05	0.1		0.92	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.6		0.18	0.5	1	3.4	0.18	0.5	1		1.7	0.18	0.5	1		0.92	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	0.11	0.019	0.05	0.1		0.035	0.1	J
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	110		0.23	0.5	5	93	0.23	0.5	5		25	0.23	0.5	5		20	5	
Dissolved Organic Carbon SM 9060A (mg/L)	8.2		0.16	0.5	1	6.3	0.16	0.5	1		5.5	0.16	0.5	1		5.3	1	
Alkalinity SM 2320B (mg/L)	550		1.1	3.2	5	490	1.1	3.2	5		460	1.1	3.2	5		350	5	
Methane RSK-175 (µg/L)	17000		0.44	1.6	10	19000	0.44	1.6	10		12000	0.22	0.8	5		16000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	244.4		1.1	3.2	5	217.8	1.1	3.2	5		204.4	1.1	3.2	5		155.6	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-58
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0095			G0095			G0095		
COLLECT DATE	3/19/2013			3/15/2012			3/10/2011		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	0.852	0.25		0.129	0.25	J	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.47	1		1.85	1		0.554	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	5.16	0.1		3.18	0.1	
Sulfide SM 9034 (mg/L)	0.401	2	J	0.2	2	J	0.6	2	J
Sulfate USEPA 9056A (mg/L)	1.4	1		63	1		184	5	
Dissolved Organic Carbon SM 9060A (mg/L)	13	1		23.1	1		3.5	1	
Alkalinity SM 2320B (mg/L)	625	1.25		435	1.25		255	1	
Methane RSK-175 (µg/L)	3100	39		2900	500		<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]	278	10		193.3	1.25		113	0.4	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-59
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0096					G0096					G0096					G0096				
COLLECT DATE	5/25/2021					6/16/2020					6/11/2019					3/23/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	4.3		0.044	0.1	0.2	0.19		0.022	0.05	0.1	0.45		0.022	0.05	0.1	0.26		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	6.1	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.8	J	0.019	0.05	0.1	25		0.38	1	2.0	24		0.19	0.5	1.0	12		0.095	0.25	0.5
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	72		1	2.5	5	85		1	3	5	71		1	3	5	43		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	46		0.69	1.6	2	4.4		0.35	1	1	3.2		0.16	0.5	1	3.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	490		3.1	6.4	10	280		3.1	10	10	280		3.1	10	10	270		1.1	3.2	5
Methane RSK-175 (µg/L)	5900		0.63	2	5	5100		0.63	2	5	4300		0.63	2	5	5200	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	218		3.1	6.4	10	124		3.1	10	10	124		3.1	10	10	120		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-59
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0096					G0096					G0096					G0096		
COLLECT DATE	4/1/2017					8/10/2016					8/12/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.1		0.022	0.05	0.1	0.25	0.022	0.05	0.1		1	0.044	0.25	0.5		2.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	1	0.18	0.5	1		1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	16		0.095	0.25	0.5	27	0.19	0.5	1		0.4	0.019	0.05	0.1		0.14	0.1	
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	0.8	0.79	1.9	4	J	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	56		0.23	0.5	5	49	0.23	0.5	5		40	0.23	0.5	5		25	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.2		0.16	0.5	1	6.1	0.16	0.5	1		2.2	0.16	0.5	1		3	1	
Alkalinity SM 2320B (mg/L)	300		1.1	3.2	5	240	1.1	3.2	5		200	1.1	3.2	5		220	5	
Methane RSK-175 (µg/L)	7300		0.22	0.8	5	8000	0.22	0.8	5		10000	0.22	0.8	5		6000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	133.3		1.1	3.2	5	106.7	1.1	3.2	5		88.89	1.1	3.2	5		97.78	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-59
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0096			G0096		
COLLECT DATE	3/18/2013			3/14/2012		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.416	0.25		<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.12	1		<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.73	0.1		4.26	0.1	
Sulfide SM 9034 (mg/L)	<	2	U	1	2	J
Sulfate USEPA 9056A (mg/L)	20.4	1		43.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)	3.92	1		2.17	1	
Alkalinity SM 2320B (mg/L)	231	1.25		190	1.25	
Methane RSK-175 (µg/L)	5700	25		<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	103	10		84.44	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-60
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0097					G0097					G0097					G0097				
COLLECT DATE	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	2.2		0.022	0.05	0.1	7.1		0.22	0.5	1.0	0.52		0.022	0.05	0.1	2.8		0.23	0.1	0.2
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.3		0.69	1	1	16		1.1	1.7	2	9.1		3.4	5	5	7.2		0.3	0.83	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.027	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.022	J	0.019	0.05	0.1	0.31		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	130		1	2.5	5	38		5.2	15	25	57	J	1	3	5	70		0.16	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	18		0.35	0.8	1	78		3.5	10	10	50		0.16	0.5	1	35		0.044	0.5	1
Alkalinity SM 2320B (mg/L)	620		3.1	6.4	10	860		3.1	10	10	680		3.1	10	10	660		1.1	3.2	5
Methane RSK-175 (µg/L)	10000		0.63	2	5	33000		3.8	12	30	9300	J	1.9	6	15	20000	J	0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	276		3.1	6.4	10	382		3.1	10	10	302		3.1	10	10	293.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-60
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0097					G0097					G0097					G0097		
COLLECT DATE	3/29/2017					8/8/2016					8/17/2015					8/14/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.8		0.022	0.05	0.1	1.4	0.022	0.05	0.1		2.7	0.11	0.25	0.5		0.56	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.9		0.18	0.5	1	3.5	0.18	0.5	1		4.9	0.18	0.5	1		1.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.6		0.019	0.05	0.1	18	0.19	0.5	1		<	0.019	0.05	0.1	U	0.95	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	85		0.23	0.5	5	100	0.23	0.5	5		9	0.23	0.5	5		14	5	
Dissolved Organic Carbon SM 9060A (mg/L)	15		0.16	0.5	1	20	0.16	0.5	1		140	0.78	2.5	5		44	1	
Alkalinity SM 2320B (mg/L)	410		1.1	3.2	5	360	1.1	3.2	5		650	1.1	3.2	5		450	5	
Methane RSK-175 (µg/L)	13000	J	0.22	0.8	5	12000	0.22	0.8	5		15000	0.44	1.6	10		9900	5	
Carbon Dioxide SM 2320B (mg/L)[1]	182.2		1.1	3.2	5	160	1.1	3.2	5		288.9	1.1	3.2	5		200	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-60
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0097			G0097		
COLLECT DATE	3/18/2013			3/14/2012		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.313	0.25		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.95	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.95	0.1		11	0.1	
Sulfide SM 9034 (mg/L)	<	2	U	0.6	2	J
Sulfate USEPA 9056A (mg/L)	28.8	1		127	10	
Dissolved Organic Carbon SM 9060A (mg/L)	40.2	1		3.65	1	
Alkalinity SM 2320B (mg/L)	346	1.25		80	1.25	
Methane RSK-175 (µg/L)	1700	100		7.4	5	
Carbon Dioxide SM 2320B (mg/L)[1]	154	10		35.56	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-61
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0098					G0098					G0098					G0098				
COLLECT DATE	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	2.4		0.022	0.05	0.1	3.5		0.022	0.05	0.1	0.14		0.022	0.05	0.1	3.7		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.7		0.69	1	1	3.8		0.69	1	1	1.8		0.69	1	1	5.9		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	11	J	0.038	0.1	0.2	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	65		1	2.5	5	73		1	3	5	100	J	1	3	5	47		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	8.6		0.35	0.8	1	6.8		0.35	1	1	3.8		0.16	0.5	1	9.2		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	450		3.1	6.4	10	320		3.1	10	10	100		3.1	10	10	360		1.1	3.2	5
Methane RSK-175 (µg/L)	12000		0.63	2	5	13000		1.9	6	15	2000		0.63	2	5	21000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	200		3.1	6.4	10	142		3.1	10	10	44		3.1	10	10	160		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-61
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0098					G0098					G0098					G0098		
COLLECT DATE	3/28/2017					8/15/2016					8/13/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	4.2		0.022	0.05	0.1	1.7	0.022	0.05	0.1		1	0.022	0.05	0.1		1.8	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	6.3		0.18	0.5	1	2.9	0.18	0.5	1		2.1	0.18	0.5	1		3.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	0.39	0.019	0.05	0.1		<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	0.96	4	J
Sulfate USEPA 9056A (mg/L)	22		0.23	0.5	5	21	0.23	0.5	5		55	0.23	0.5	5		4.9	5	J
Dissolved Organic Carbon SM 9060A (mg/L)	11		0.16	0.5	1	8.1	0.16	0.5	1		8.3	0.16	0.5	1		130	1	
Alkalinity SM 2320B (mg/L)	360		1.1	3.2	5	330	1.1	3.2	5		270	1.1	3.2	5		490	5	
Methane RSK-175 (µg/L)	24000	J	0.44	1.6	5	20000	0.44	1.6	10		14000	0.22	0.8	5		16000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	160		1.1	3.2	5	146.7	1.1	3.2	5		120	1.1	3.2	5		217.8	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-61
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0098			G0098		
COLLECT DATE	3/18/2013			3/14/2012		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.96	0.25		0.299	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.44	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.143	0.1		39.6	0.1	
Sulfide SM 9034 (mg/L)	4.01	2		0.6	2	J
Sulfate USEPA 9056A (mg/L)	7.7	1		24.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)	12.6	1		8.11	1	
Alkalinity SM 2320B (mg/L)	385	1.25		195	1.25	
Methane RSK-175 (µg/L)	9300	500		4500	500	
Carbon Dioxide SM 2320B (mg/L)[1]	171	10		86.67	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-62
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0099					G0099					G0099					G0099				
COLLECT DATE	5/23/2021					6/15/2020					6/8/2019					3/23/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.63		0.022	0.05	0.1	2.2		0.022	0.05	0.1	0.57		0.022	0.05	0.1	2.9	J	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.3		0.69	1	1	3.4		0.69	1	1	<	U	0.69	1	1	4.2		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.8		0.019	0.05	0.1	2.9		0.019	0.05	0.1	39		0.095	0.25	0.5	5.3		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	95		1	2.5	5	66		1	3	5	72	J	1	3	5	49		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.8		0.35	0.8	1	4.2		0.35	1	1	3.5		0.16	0.5	1	4.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	260		3.1	6.4	10	240		3.1	10	10	140		3.1	10	10	220		1.1	3.2	5
Methane RSK-175 (µg/L)	610		0.63	2	5	6500		0.63	2	5	2300		0.63	2	5	12000		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	116		3.1	6.4	10	107		3.1	10	10	62		3.1	10	10	97.78		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-62
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0099					G0099					G0099					G0099		
COLLECT DATE	3/30/2017					8/11/2016					8/13/2015					3/21/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	3		0.022	0.05	0.1	3.2	0.022	0.05	0.1		3.5	0.022	0.05	0.1		2.9	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4		0.18	0.5	1	3.2	0.18	0.5	1		2.9	0.18	0.5	1		2.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.56		0.019	0.05	0.1	3	0.019	0.05	0.1		<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	1.1	4	J
Sulfate USEPA 9056A (mg/L)	32		0.23	0.5	5	30	0.23	0.5	5		51	0.23	0.5	5		61	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.9		0.16	0.5	1	5.6	0.16	0.5	1		5.9	0.16	0.5	1		4.9	1	
Alkalinity SM 2320B (mg/L)	240		1.1	3.2	5	220	1.1	3.2	5		200	1.1	3.2	5		170	5	
Methane RSK-175 (µg/L)	14000		0.44	1.6	10	11000	0.22	0.8	5		14000	0.44	0.8	10		12000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	106.7		1.1	3.2	5	97.78	1.1	3.2	5		88.89	1.1	3.2	5		75.56	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-62
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0099			G0099		
COLLECT DATE	3/21/2013			3/14/2012		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	4.7	0.25		0.828	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	19.4	1		7.64	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	0.276	0.1	
Sulfide SM 9034 (mg/L)	4.01	2		1.6	2	J
Sulfate USEPA 9056A (mg/L)	4.3	5	J	21.1	1	
Dissolved Organic Carbon SM 9060A (mg/L)	246	1		370	1	
Alkalinity SM 2320B (mg/L)	790	1.25		170	1.25	
Methane RSK-175 (µg/L)	1800	49		4100	1000	
Carbon Dioxide SM 2320B (mg/L)[1]	351	10		75.56	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-63
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0100					G0100					G0100					G0100				
COLLECT DATE	5/23/2021					6/12/2020					6/7/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	6.7		0.044	0.1	0.2	2.8		0.022	0.05	0.1	7.7		0.044	0.1	0.2	9.8		0.22	0.5	1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	7.9		1.1	1.7	2	3		0.69	1	1	12		3.4	5	5	14		0.3	0.83	1.7
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.097	J	0.019	0.05	0.1	0.26		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	270		5.2	13	25	290		5.2	15	25	150	J	1	3	5	86		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	12		0.35	0.8	1	8		0.35	1	1	15		0.16	0.5	1	18		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	810		3.1	6.4	10	600		3.1	10	10	740		3.1	10	10	610		1.1	3.2	5
Methane RSK-175 (µg/L)	11000		0.63	2	5	16000		1.9	6	15	14000		1.9	6	15	28000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	360		3.1	6.4	10	267		3.1	10	10	329		3.1	10	10	271.1		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-63
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0100					G0100					G0100					G0100		
COLLECT DATE	3/27/2017					8/4/2016					8/7/2015					8/11/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	9		0.11	0.25	0.5	3.8	0.022	0.05	0.1		2.2	0.022	0.05	0.1		2.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	11		0.36	1	2	4.8	0.18	0.5	1		2.2	0.18	0.5	1		2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	0.02	0.1	J
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	40		0.23	0.5	5	20	0.23	0.5	5		28	0.23	0.5	5		20	5	
Dissolved Organic Carbon SM 9060A (mg/L)	16		0.16	0.5	1	6.3	0.16	0.5	1		4.1	0.16	0.5	1		9.2	1	
Alkalinity SM 2320B (mg/L)	560		1.1	3.2	5	620	1.1	3.2	5		610	1.1	3.2	5		600	5	
Methane RSK-175 (µg/L)	19000		0.44	1.6	10	13000	0.44	1.6	10		8500	0.22	0.8	5		18000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	248.9		1.1	3.2	5	275.6	1.1	3.2	5		271.1	1.1	3.2	5		266.7	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-63
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0100			G0100		
COLLECT DATE	3/19/2013			3/15/2012		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.845	0.25		0.138	0.25	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.93	1		<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	0.961	0.1	
Sulfide SM 9034 (mg/L)	0.801	2	J	<	2	U
Sulfate USEPA 9056A (mg/L)	36.7	1		84.8	5	
Dissolved Organic Carbon SM 9060A (mg/L)	6.06	1		5.74	1	
Alkalinity SM 2320B (mg/L)	772	1.25		370	1.25	
Methane RSK-175 (µg/L)	14000	97		2200	100	
Carbon Dioxide SM 2320B (mg/L)[1]	343	10		164.4	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-64
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0101					G0101					G0101					G0101				
COLLECT DATE	5/24/2021					6/12/2020					6/7/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.82		0.022	0.05	0.1	1.2		0.11	0.25	0.5	0.37		0.022	0.05	0.1	0.41		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.2		0.69	1	1	2.1		0.69	1	1	0.94	J	0.69	1	1	2.5		0.3	0.83	1.7
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.13		0.019	0.05	0.1	0.21		0.019	0.05	0.1	9.5		0.038	0.1	0.2
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	530		5.2	13	25	560		5.2	15	25	510	J	5.2	15	25	260		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	8.5		0.35	0.8	1	10		0.35	1	1	9.1		0.16	0.5	1	15		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	760		3.1	6.4	10	760		3.1	10	10	610		3.1	10	10	880		1.1	3.2	5
Methane RSK-175 (µg/L)	3900	J	0.63	2	5	5500		0.63	2	5	9400		1.9	6	15	9200		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	338		3.1	6.4	10	338		3.1	10	10	271		3.1	10	10	391.1		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-64
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0101					G0101					G0101					G0101		
COLLECT DATE	3/27/2017					8/4/2016					8/6/2015					8/11/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.1	J	0.022	0.05	0.1	1.4	0.022	0.05	0.1		0.29	0.022	0.05	0.1		0.16	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.1		0.18	0.5	1	1.2	0.18	0.5	1		1.2	0.18	0.5	1		0.49	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	15		0.038	0.1	0.2	22	0.38	1	2		11	0.038	0.1	0.2		<	0.1	U
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	380		1.2	2.5	25	370	1.2	2.5	25		180	0.23	10	5		63	5	
Dissolved Organic Carbon SM 9060A (mg/L)	10		0.16	0.5	1	10	0.16	0.5	1		6.6	0.16	0.5	1		3.5	1	
Alkalinity SM 2320B (mg/L)	8.3		1.1	3.2	5	<	1.1	3.2	5	U	460	1.1	3.2	5		430	5	
Methane RSK-175 (µg/L)	10000		0.22	0.8	5	14000	0.22	0.8	5		9800	0.22	0.8	5	J	6100	10	
Carbon Dioxide SM 2320B (mg/L)[1]	368.9		1.1	3.2	5	<	1.1	3.2	5		204.4	1.1	3.2	5		191.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-64
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0101			G0101		
COLLECT DATE	3/19/2013			3/15/2012		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	0.724	0.25		0.133	0.25	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.53	1		<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	0.352	0.1	
Sulfide SM 9034 (mg/L)	<	2	U	1	2	J
Sulfate USEPA 9056A (mg/L)	255	10		156	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.64	1		3.02	1	
Alkalinity SM 2320B (mg/L)	340	1.25		295	1.25	
Methane RSK-175 (µg/L)	360	5		3600	250	
Carbon Dioxide SM 2320B (mg/L)[1]	151	10		131.1	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-65
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0102					G0102					G0102					G0102				
COLLECT DATE	5/21/2021					6/11/2020					6/5/2019					3/13/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	3.5		0.22	0.5	1.0	0.072	J	0.022	0.05	0.1	0.072	J	0.022	0.05	0.1	0.064	J	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	6.9	10	10	<	U	0.69	1	1	<	UJ	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.32		0.019	0.05	0.1	3.9	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	4.8		0.79	1.9	4	<	UJ	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	740		5.2	13	25	1100		10	30	50	1100		10	30	50	1100	J	2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	88		0.69	1.6	2	3.9		0.35	1	1	3.8		0.16	0.5	1	4		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	770		3.1	6.4	10	430		3.1	10	10	420		3.1	10	10	440		1.1	3.2	5
Methane RSK-175 (µg/L)	120		0.63	2	5	1.8	J	0.63	2	5	1.6	J	0.63	2	5	3.1	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	342		3.1	6.4	10	191		3.1	10	10	187		3.1	10	10	195.6		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-65
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0102					G0102					G0102					G0102		
COLLECT DATE	3/22/2017					8/12/2016					8/4/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.066	0.022	0.05	0.1	J	0.086	0.022	0.05	0.1	J	0.079	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.32	0.18	0.5	1	J	<	0.18	0.5	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.5	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	1100		2.3	5	50	1100	2.3	5	50	J	980	4.6	10	100		1100	50	
Dissolved Organic Carbon SM 9060A (mg/L)	<	U	0.16	0.5	1	4	0.16	0.5	1		4	0.16	0.5	1		4	1	
Alkalinity SM 2320B (mg/L)	410		1.1	3.2	5	400	1.1	3.2	5		380	1.1	3.2	5		390	5	
Methane RSK-175 (µg/L)	2.8	J	0.22	0.8	5	2.6	0.22	0.8	5	J	2.3	0.22	0.8	5	J	2.4	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	182.2		1.1	3.2	5	177.8	1.1	3.2	5		168.9	1.1	3.2	5		173.3	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-65
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0102		
COLLECT DATE	3/12/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.317	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.014	0.1	J
Sulfide SM 9034 (mg/L)	<	2	U
Sulfate USEPA 9056A (mg/L)	987	50	
Dissolved Organic Carbon SM 9060A (mg/L)	3.6	1	
Alkalinity SM 2320B (mg/L)	430	1.25	
Methane RSK-175 (µg/L)	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	191	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-66
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0103					G0103					G0103					G0103				
COLLECT DATE	5/21/2021					6/11/2020					6/5/2019					3/13/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.22		0.022	0.05	0.1	1.7		0.022	0.05	0.1	3.4		0.022	0.05	0.1	0.43		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.7		0.69	1	1	2.1		0.69	1	1	4.1	J	3.4	5	5	7.4		0.3	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.024	J	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	34	J	0.79	1.9	4	24		0.79	1.9	4	31.0		0.79	1.9	4	25		0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	970		10	25	50	820		5.2	15	25	490		10	30	50	610		1.2	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	86		0.75	1.7	2	88		0.69	2	2	230		0.78	2.5	5	240	J	0.78	0.5	1
Alkalinity SM 2320B (mg/L)	580		3.1	6.4	10	460		3.1	10	10	670		3.1	10	10	590		1.1	3.2	5
Methane RSK-175 (µg/L)	120		0.63	2	5	72		0.63	2	5	130		0.63	2	5	68		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	258		3.1	6.4	10	204		3.1	10	10	298		3.1	10	10	262.2		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-66
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0103					G0103					G0103					G0103		
COLLECT DATE	3/23/2017					8/8/2016					8/4/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	8.7		0.22	0.5	1	6.7	0.11	0.25	0.5		12	0.11	0.5	0.5		11	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	12		0.36	1	2	8.7	0.36	1	2		13	0.36	1	2		12	2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	40		1.6	3.8	8	11	0.79	1.9	4		29	0.79	1.9	4		15	4	
Sulfate USEPA 9056A (mg/L)	410		2.3	5	50	670	2.3	5	50		480	1.2	2.5	25		890	25	
Dissolved Organic Carbon SM 9060A (mg/L)	420		1.8	5.7	11	260	0.93	3	6		210	0.93	3	6		260	6	
Alkalinity SM 2320B (mg/L)	590		1.1	3.2	5	490	1.1	3.2	5		490	1.1	3.2	5		390	5	
Methane RSK-175 (µg/L)	45		0.22	0.8	5	24	0.22	0.8	5		11	0.22	0.8	5	J	11	5	
Carbon Dioxide SM 2320B (mg/L)[1]	262.2		1.1	3.2	5	217.8	1.1	3.2	5		217.8	1.1	3.2	5		173.3	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-66
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0103		
COLLECT DATE	3/21/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	6.31	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	41.3	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U
Sulfide SM 9034 (mg/L)	8.02	2	
Sulfate USEPA 9056A (mg/L)	744	25	
Dissolved Organic Carbon SM 9060A (mg/L)	428	1	
Alkalinity SM 2320B (mg/L)	400	1.25	
Methane RSK-175 (µg/L)	8	4.9	
Carbon Dioxide SM 2320B (mg/L)[1]	178	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-67
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0104					G0104					G0104					G0104				
COLLECT DATE	5/21/2021					6/12/2020					6/5/2019					3/13/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.43		0.022	0.05	0.1	0.34		0.022	0.05	0.1	0.83		0.022	0.05	0.1	1		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.1		0.69	1	1	<	U	0.69	1	1	0.94	J	0.69	1	1	1.7		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	8.8		0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	950	J	10	25	50	820		5.2	15	25	1000		10	30	50	1200		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	5.1		0.35	0.8	1	5		0.35	1	1	4.5		0.16	0.5	1	8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	500		3.1	6.4	10	470		3.1	10	10	470		3.1	10	10	540		1.1	3.2	5
Methane RSK-175 (µg/L)	950	J	0.63	2	5	1600		0.63	2	5	2000		0.63	2	5	3800	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	222		3.1	6.4	10	209		3.1	10	10	209		3.1	10	10	240		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-67
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0104					G0104					G0104					G0104		
COLLECT DATE	3/23/2017					8/12/2016					8/5/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.2	J	0.022	0.05	0.1	1.4	0.022	0.05	0.1		2	0.022	0.05	0.1		2.3	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.8		0.18	0.5	1	1.6	0.18	0.5	1		2	0.18	0.5	1		2.7	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	3.6	J	0.79	1.9	4	1.6	0.79	1.9	4	J	6.1	0.79	1.9	4		2.4	4	J
Sulfate USEPA 9056A (mg/L)	960		2.3	5	50	920	2.3	5	50		910	2.3	5	50		730	25	
Dissolved Organic Carbon SM 9060A (mg/L)	5		0.16	0.5	1	6.5	0.16	0.5	1		8.9	0.16	0.5	1		91	2.8	
Alkalinity SM 2320B (mg/L)	460		1.1	3.2	5	550	1.1	3.2	5		480	1.1	3.2	5		700	5	
Methane RSK-175 (µg/L)	1200		0.22	0.8	5	3100	0.22	0.8	5		1500	0.22	0.8	5	J	320	5	
Carbon Dioxide SM 2320B (mg/L)[1]	204.4		1.1	3.2	5	244.4	1.1	3.2	5		213.3	1.1	3.2	5		311.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-67
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0104		
COLLECT DATE	3/12/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	1.37	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.92	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U
Sulfide SM 9034 (mg/L)	0.802	2	J
Sulfate USEPA 9056A (mg/L)	852	50	
Dissolved Organic Carbon SM 9060A (mg/L)	9.2	1	
Alkalinity SM 2320B (mg/L)	605	1.25	
Methane RSK-175 (µg/L)	10	5	
Carbon Dioxide SM 2320B (mg/L)[1]	269	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-68
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0105					G0105					G0105					G0105				
COLLECT DATE	5/21/2021					6/11/2020					6/5/2019					3/13/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.65		0.022	0.05	0.1	0.94		0.022	0.05	0.1	1.4		0.022	0.05	0.1	2.3		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.2	J	0.69	1	1	1.7		0.69	1	1	1.9		0.69	1	1	3.4		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	2.4	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1200		10	25	50	1100		10	30	50	870	J	10	30	50	1000		1.2	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	4.2		0.35	0.8	1	4.3		0.35	1	1	5.9		0.16	0.5	1	6.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	460		3.1	6.4	10	480		3.1	10	10	580		3.1	10	10	660		1.1	3.2	5
Methane RSK-175 (µg/L)	840	J	0.63	2	5	2400		0.63	2	5	670		0.63	2	5	470		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	204		3.1	6.4	10	213		3.1	10	10	258		3.1	10	10	293.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-68
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0105					G0105					G0105					G0105		
COLLECT DATE	3/22/2017					8/3/2016					8/5/2015					8/6/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	3.5		0.022	0.05	0.1	4.1	0.022	0.05	0.1		3.8	0.022	0.05	0.1		1.2	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.7		0.18	0.5	1	4.8	0.18	0.5	1		2.6	0.18	0.5	1		1	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	20	0.79	1.9	4		2.2	4	J
Sulfate USEPA 9056A (mg/L)	960		2.3	5	50	840	2.3	5	50		640	2.3	5	50		740	250	
Dissolved Organic Carbon SM 9060A (mg/L)	5.7		0.16	0.5	1	8.5	0.16	0.5	1		12	0.16	0.5	1		9.6	1	
Alkalinity SM 2320B (mg/L)	560		1.1	3.2	5	730	1.1	3.2	5		840	1.1	3.2	5		610	5	
Methane RSK-175 (µg/L)	830		0.22	0.8	5	1700	0.22	0.8	5		1200	0.22	0.8	5	J	160	5	
Carbon Dioxide SM 2320B (mg/L)[1]	248.9		1.1	3.2	5	324.4	1.1	3.2	5		373.3	1.1	3.2	5		271.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-68
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0105		
COLLECT DATE	3/12/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	1.36	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.21	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U
Sulfide SM 9034 (mg/L)	24	2	
Sulfate USEPA 9056A (mg/L)	733	25	
Dissolved Organic Carbon SM 9060A (mg/L)	5.92	1	
Alkalinity SM 2320B (mg/L)	615	1.25	
Methane RSK-175 (µg/L)	460	100	
Carbon Dioxide SM 2320B (mg/L)[1]	273	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-69
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0106-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0106					G0106					G0106					G0106				
COLLECT DATE	5/21/2021					6/12/2020					6/5/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.052	J	0.022	0.05	0.1	0.096	J	0.022	0.05	0.1	0.074	J	0.022	0.05	0.1	0.082	J	0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	1.1		0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.028	J	0.019	0.05	0.1	0.69		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1200		10	25	50	1100		10	30	50	1000	J	10	30	50	1100		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	4		0.35	0.8	1	3.9		0.35	1	1	3.9		0.16	0.5	1	3.9		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	440		3.1	6.4	10	380		3.1	10	10	420		3.1	10	10	390		1.1	3.2	5
Methane RSK-175 (µg/L)	2	J	0.63	2	5	3.8	J	0.63	2	5	3.4	J	0.63	2	5	3.7	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	196		3.1	6.4	10	169		3.1	10	10	187		3.1	10	10	173.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-69
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0106-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0106					G0106					G0106					G0106		
COLLECT DATE	3/23/2017					8/3/2016					8/4/2015					8/7/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.1	0.022	0.05	0.1		0.069	0.022	0.05	0.1	J	0.076	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.78	0.18	0.5	1	J	0.67	0.18	0.5	1	J	0.78	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.031	0.019	0.05	0.1	J	<	0.019	0.05	0.1	U	0.071	0.1	J
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	1.3	4	J
Sulfate USEPA 9056A (mg/L)	950		2.3	5	50	9400	23	50	500		900	2.3	5	50		930	50	
Dissolved Organic Carbon SM 9060A (mg/L)	<	U	0.16	0.5	1	3.8	0.16	0.5	1		4.7	0.16	0.5	1		3.6	1	
Alkalinity SM 2320B (mg/L)	430		1.1	3.2	5	410	1.1	3.2	5		430	1.1	3.2	5		390	5	
Methane RSK-175 (µg/L)	3.7	J	0.22	0.8	5	35	0.22	0.8	5		12	0.22	0.8	5	J	6.3	5	
Carbon Dioxide SM 2320B (mg/L)[1]	191.1		1.1	3.2	5	182.2	1.1	3.2	5		191.1	1.1	3.2	5		173.3	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-69
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0106-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0106		
COLLECT DATE	3/12/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.845	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.711	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.009	0.1	J
Sulfide SM 9034 (mg/L)	<	2	U
Sulfate USEPA 9056A (mg/L)	1070	50	
Dissolved Organic Carbon SM 9060A (mg/L)	4.34	1	
Alkalinity SM 2320B (mg/L)	390	1.25	
Methane RSK-175 (µg/L)	2.3	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	173	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-70
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0107-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0107					G0107					G0107					G0107				
COLLECT DATE	5/21/2021					6/11/2020					6/5/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.17		0.022	0.05	0.1	0.25		0.022	0.05	0.1	0.17		0.022	0.05	0.1	0.69		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.74	J	0.69	1	1	0.83	J	0.69	1	1	<	U	0.69	1	1	1.4		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1200		10	25	50	1100		10	30	50	1000	J	10	30	50	1100		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	4.4		0.35	0.8	1	4.1		0.35	1	1	4.4		0.16	0.5	1	4.3		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	450		3.1	6.4	10	390		3.1	10	10	450		3.1	10	10	420		1.1	3.2	5
Methane RSK-175 (µg/L)	200	J	0.63	2	5	130		0.63	2	5	5600		0.63	2	5			NS		
Carbon Dioxide SM 2320B (mg/L)[1]	200		3.1	6.4	10	173		3.1	10	10	200		3.1	10	10	186.7		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-70
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0107-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0107					G0107					G0107					G0107		
COLLECT DATE	3/22/2017					8/3/2016					8/5/2015					8/7/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.37		0.022	0.05	0.1	0.62	0.022	0.05	0.1		0.91	0.022	0.05	0.1		0.35	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	1.4	0.18	0.5	1		0.98	0.18	0.5	1	J	0.39	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	3.5	0.79	1.9	4	J	<	4	UJ
Sulfate USEPA 9056A (mg/L)	1100		2.3	5	50	9200	23	50	500		660	2.3	5	50		950	50	
Dissolved Organic Carbon SM 9060A (mg/L)	4.6		0.16	0.5	1	5.1	0.16	0.5	1		13	0.16	0.5	1		4.2	1	
Alkalinity SM 2320B (mg/L)	460		1.1	3.2	5	540	1.1	3.2	5		760	1.1	3.2	5		450	5	
Methane RSK-175 (µg/L)	8300		0.22	0.8	5	7300	0.22	0.8	5		5500	0.22	0.8	5	J	13000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	204.4		1.1	3.2	5	240	1.1	3.2	5		337.8	1.1	3.2	5		200	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-70
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0107-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0107		
COLLECT DATE	3/12/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.937	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.02	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U
Sulfide SM 9034 (mg/L)	0.401	2	J
Sulfate USEPA 9056A (mg/L)	1050	50	
Dissolved Organic Carbon SM 9060A (mg/L)	4.87	1	
Alkalinity SM 2320B (mg/L)	410	1.25	
Methane RSK-175 (µg/L)	1200	100	
Carbon Dioxide SM 2320B (mg/L)[1]	182	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-71
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0108					G0108					G0108					G0108				
COLLECT DATE	5/22/2021					6/14/2020					6/8/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	3.1		0.022	0.05	0.1	4.1		0.022	0.05	0.1	5.5		0.044	0.1	0.2	5.9		0.044	0.1	0.2
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.8		0.69	1	1	5.5		0.69	1	1	7.6		0.69	1	1	8.5		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.021	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	13		1	2.5	5	24		1	3	5	5.6	J	1	3	5	4.6	J	0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	12		0.35	0.8	1	7.6		0.35	1	1	7.9		0.16	0.5	1	9.3		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	560		3.1	6.4	10	310		3.1	10	10	390		3.1	10	10	440		1.1	3.2	5
Methane RSK-175 (µg/L)	16000		0.63	2	5	33000		3.8	12	30	16000	J	1.9	6	15	25000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	249		3.1	6.4	10	138		3.1	10	10	173		3.1	10	10	195.6		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-71
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0108					G0108					G0108					G0108		
COLLECT DATE	3/28/2017					8/6/2016					8/17/2015					8/12/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	7.3		0.11	0.25	0.5	0.81	0.022	0.05	0.1		0.074	0.022	0.05	0.1	J	0.085	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	9.2		0.36	1	2	3	0.18	0.5	1		2.1	0.18	0.5	1		0.64	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	0.8	0.79	1.9	4	J	1.1	0.79	1.9	4	J	<	4	U
Sulfate USEPA 9056A (mg/L)	3.8	J	0.23	0.5	5	15	0.23	0.5	5		2.2	0.23	0.5	5	J	16	5	
Dissolved Organic Carbon SM 9060A (mg/L)	16		0.16	0.5	1	17	0.16	0.5	1		83	0.35	1.1	2.3		51	1	
Alkalinity SM 2320B (mg/L)	450		1.1	3.2	5	420	1.1	3.2	5		440	1.1	3.2	5		220	5	
Methane RSK-175 (µg/L)	23000	J	0.44	1.6	10	18000	0.44	1.6	10		16000	0.44	1.6	10	J	14000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	200		1.1	3.2	5	186.7	1.1	3.2	5		195.6	1.1	3.2	5		97.78	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-71
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0108		
COLLECT DATE	3/18/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.675	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.89	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.03	0.1	
Sulfide SM 9034 (mg/L)	0.2	2	J
Sulfate USEPA 9056A (mg/L)	18.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2.12	1	
Alkalinity SM 2320B (mg/L)	90	1.25	
Methane RSK-175 (µg/L)	3000	100	
Carbon Dioxide SM 2320B (mg/L)[1]	40	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-72
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0109					G0109					G0109					G0109				
COLLECT DATE	5/23/2021					6/15/2020					6/8/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.56		0.022	0.05	0.1	0.58		0.022	0.05	0.1	0.48		0.022	0.05	0.1	1.7		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.97	J	0.69	1	1	0.77	J	0.69	1	1	0.91	J	0.69	1	1	2.5		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	UJ	0.019	0.05	0.1	1.8		0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	UJ	10	10	10
Sulfate USEPA 9056A (mg/L)	120		1	2.5	5	110		1	3	5	99	J	1	3	5	72		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	2.9		0.35	0.8	1	1.8		0.35	1	1	3.7		0.16	0.5	1	3.5		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	270		3.1	6.4	10	240		3.1	10	10	300		3.1	10	10	270		1.1	3.2	5
Methane RSK-175 (µg/L)	630		0.63	2	5	3000		0.63	2	5	2000		0.63	2	5	8000	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	120		3.1	6.4	10	107		3.1	10	10	133		3.1	10	10	120		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-72
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0109					G0109					G0109					G0109		
COLLECT DATE	3/29/2017					8/16/2016					8/13/2015					3/21/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.9		0.022	0.05	0.1	1.3	0.022	0.05	0.1		1.6	0.022	0.05	0.1		1.7	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.3		0.18	0.5	1	1.5	0.18	0.5	1		1.1	0.18	0.5	1		1.3	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.038	0.1	0.2	2.4	0.019	0.05	0.1		0.58	0.019	0.05	0.1		1.2	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	0.8	0.79	1.9	4	J	<	4	U
Sulfate USEPA 9056A (mg/L)	89		0.23	0.5	5	77	0.23	0.5	5		65	0.23	0.5	5		42	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.7		0.16	0.5	1	3.6	0.16	0.5	1		3.1	0.16	0.5	1		3.8	1	
Alkalinity SM 2320B (mg/L)	240		1.1	3.2	5	200	1.1	3.2	5		200	1.1	3.2	5		220	5	
Methane RSK-175 (µg/L)	14000	J	0.22	0.8	5	14000	0.22	0.8	5		13000	0.22	0.8	5		18000	10	J
Carbon Dioxide SM 2320B (mg/L)[1]	106.7		1.1	3.2	5	88.89	1.1	3.2	5		88.89	1.1	3.2	5		97.78	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-72
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0109		
COLLECT DATE	3/21/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	3.57	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	10.4	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U
Sulfide SM 9034 (mg/L)	2	2	
Sulfate USEPA 9056A (mg/L)	1.1	1	
Dissolved Organic Carbon SM 9060A (mg/L)	13.2	1	
Alkalinity SM 2320B (mg/L)	550	1.25	
Methane RSK-175 (µg/L)	21000	94	
Carbon Dioxide SM 2320B (mg/L)[1]	244	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-73
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0110					G0110					G0110					G0110				
COLLECT DATE	5/22/2021					6/13/2020					6/8/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	5.9		0.022	0.05	0.1	6.6		0.11	0.25	0.5	6.3		0.044	0.1	0.2	4.9		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	8.1		0.69	1	1	8		1.1	1.7	2	<	U	17	25	25	9.3		0.45	1.3	2.5
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.18		0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	13		10	10	10
Sulfate USEPA 9056A (mg/L)	42		1	2.5	5	15		1	3	5	17	J	1	3	5	10		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	9.6		0.35	0.8	1	13		0.35	1	1	15		0.16	0.5	1	16		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	730		3.1	6.4	10	580		3.1	10	10	590		3.1	10	10	580		1.1	3.2	5
Methane RSK-175 (µg/L)	13000		0.63	2	5	20000		0.63	2	5	11000		1.9	6	15	24000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	324		3.1	6.4	10	258		3.1	10	10	262		3.1	10	10	257.8		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-73
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0110					G0110					G0110					G0110		
COLLECT DATE	3/29/2017					8/16/2016					8/17/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	4.6		0.022	0.05	0.1	1.8	0.022	0.05	0.1		1.5	0.022	0.05	0.1		1.3	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	8		0.36	1	2	2.9	0.18	0.5	1		2.2	0.18	0.5	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	0.77	0.019	0.05	0.1		<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	3.6	J	0.23	0.5	5	23	0.23	0.5	5		38	0.23	0.5	5		31	5	
Dissolved Organic Carbon SM 9060A (mg/L)	21		0.16	0.5	1	11	0.16	0.5	1		9	0.16	0.5	1		5.4	1	
Alkalinity SM 2320B (mg/L)	680		1.1	3.2	5	580	1.1	3.2	5		410	1.1	3.2	5		410	5	
Methane RSK-175 (µg/L)	22000	J	0.44	1.6	10	17000	0.65	2.4	15		16000	0.44	1.6	10		14000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	302.2		1.1	3.2	5	257.8	1.1	3.2	5		182.2	1.1	3.2	5		182.2	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-73
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0110		
COLLECT DATE	3/18/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	1.23	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.194	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.253	0.1	
Sulfide SM 9034 (mg/L)	2	2	
Sulfate USEPA 9056A (mg/L)	23.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)	4.19	1	
Alkalinity SM 2320B (mg/L)	252	1.25	
Methane RSK-175 (µg/L)	6900	250	
Carbon Dioxide SM 2320B (mg/L)[1]	112	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-74
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0111					G0111					G0111					G0111				
COLLECT DATE	5/24/2021					6/12/2020					6/7/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.33		0.022	0.05	0.1	0.39		0.022	0.05	0.1	2.1		0.022	0.05	0.1	0.59		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.9		0.69	1	1	<	U	0.69	1	1	2.8		0.69	1	1	1.5		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.5		0.019	0.05	0.1	14		0.038	0.1	0.2	<	U	0.019	0.05	0.1	0.87		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	200		1	2.5	5	370		5.2	15	25	150	J	1	3	5	160		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	8.2		0.35	0.8	1	7.9		0.35	1	1	8.5		0.16	0.5	1	6.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	910		3.1	6.4	10	720		3.1	10	10	730		3.1	10	10	600		1.1	3.2	5
Methane RSK-175 (µg/L)	3400		0.63	2	5	3800		0.63	2	5	9800		1.9	6	15	18000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	404		3.1	6.4	10	320		3.1	10	10	324		3.1	10	10	266.7		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-74
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0111					G0111					G0111					G0111		
COLLECT DATE	3/25/2017					8/4/2016					8/10/2015					8/12/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.54		0.022	0.05	0.1	0.91	0.022	0.05	0.1		1.3	0.022	0.05	0.1		2	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.6		0.18	0.5	1	2.4	0.18	0.5	1		2.2	0.18	0.5	1		1.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.18	0.019	0.05	0.1		<	0.019	0.05	0.1	UJ	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	UJ	<	4	U
Sulfate USEPA 9056A (mg/L)	54		0.23	0.5	5	56	0.23	0.5	5		110	0.23	0.5	5		80	5	
Dissolved Organic Carbon SM 9060A (mg/L)	5.7		0.16	0.5	1	7.1	0.16	0.5	1		7.8	0.16	0.5	1		4.6	1	
Alkalinity SM 2320B (mg/L)	570		1.1	3.2	5	650	1.1	3.2	5		580	1.1	3.2	5		520	5	
Methane RSK-175 (µg/L)	16000		0.44	1.6	10	12000	0.22	0.8	5		11000	0.44	1.6	10	J	8000	5	
Carbon Dioxide SM 2320B (mg/L)[1]	253.3		1.1	3.2	5	288.9	1.1	3.2	5		257.8	1.1	3.2	5		231.1	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-74
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0111		
COLLECT DATE	3/19/2013		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	2.61	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	8.02	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U
Sulfide SM 9034 (mg/L)	0.401	2	J
Sulfate USEPA 9056A (mg/L)	82.6	5	
Dissolved Organic Carbon SM 9060A (mg/L)	39.8	1	
Alkalinity SM 2320B (mg/L)	1220	1.25	
Methane RSK-175 (µg/L)	10000	94	
Carbon Dioxide SM 2320B (mg/L)[1]	542	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-75
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0112-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0112					G0112					G0112					G0112				
COLLECT DATE	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.3		0.022	0.05	0.1	0.26		0.022	0.05	0.1	0.065	J	0.022	0.05	0.1	0.28		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.5		0.019	0.05	0.1	<	UJ	0.019	0.05	0.1	29		0.19	0.5	1.0	4		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	100	J	1	2.5	5	110		1	3	5	61	J	1	3	5	110		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.9		0.35	0.8	1	3.3		0.35	1	1	2.4		0.16	0.5	1	2.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	260		3.1	6.4	10	230		3.1	10	10	170		3.1	10	10	220		1.1	3.2	5
Methane RSK-175 (µg/L)	1900		0.63	2	5	5900		0.63	2	5	1300		0.63	2	5	9600	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	116		3.1	6.4	10	102		3.1	10	10	76		3.1	10	10	97.78		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-75
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0112-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0112					G0112					G0112					G0112		
COLLECT DATE	3/28/2017					8/10/2016					8/12/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.36	J	0.022	0.05	0.1	0.49	0.022	0.05	0.1		0.89	0.022	0.05	0.1		0.56	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.44	0.18	0.5	1	J	0.78	0.18	0.5	1	J	0.55	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.055	J	0.019	0.05	0.1	8.3	0.019	0.05	0.1		3.5	0.019	0.05	0.1	J	0.35	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	1.1	0.79	1.9	4	J	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	71		0.23	0.5	5	63	0.23	0.5	5		54	0.23	0.5	5		26	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.4		0.16	0.5	1	3.4	0.16	0.5	1		3.6	0.16	0.5	1		3.9	1	
Alkalinity SM 2320B (mg/L)	210		1.1	3.2	5	210	1.1	3.2	5		220	1.1	3.2	5		260	5	
Methane RSK-175 (µg/L)	14000		0.22	0.8	5	11000	0.22	0.8	5		12000	0.22	0.8	5		9200	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	93.33		1.1	3.2	5	93.33	1.1	3.2	5		97.78	1.1	3.2	5		115.6	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-76
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0113-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0113					G0113					G0113					G0113				
COLLECT DATE	5/23/2021					6/14/2020					6/8/2019					3/21/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.98		0.022	0.05	0.1	1.4		0.022	0.05	0.1	0.66		0.022	0.05	0.1	1		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.7		0.69	1	1	2.8		0.69	1	1	1.4		0.69	1	1	2.9		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.22		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	100		1	2.5	5	77		1	3	5	63	J	1	3	5	37		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.7		0.35	0.8	1	3.9		0.35	1	1	5		0.16	0.5	1	6.4		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	300		3.1	6.4	10	230		3.1	10	10	340		3.1	10	10	330		1.1	3.2	5
Methane RSK-175 (µg/L)	11000		0.63	2	5	22000		3.8	12	30	6100		1.9	6	15	21000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	133		3.1	6.4	10	102		3.1	10	10	151		3.1	10	10	146.7		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-76
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0113-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0113					G0113					G0113					G0113		
COLLECT DATE	3/28/2017					8/10/2016					8/14/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.7		0.022	0.05	0.1	11	0.11	0.25	0.5		16	0.44	1	2		13	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.2		0.18	0.5	0.1	19	0.9	2.5	5		28	0.9	2.5	5		62	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	1	<	0.019	0.05	0.1	U	<	0.038	0.1	0.2	U	0.11	0.1	
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	<	0.79	1.9	4	U	1.3	0.79	1.9	4	J	<	4	U
Sulfate USEPA 9056A (mg/L)	28		0.23	0.5	5	11	2.3	5	50	J	33	2.3	5	50	J	330	25	
Dissolved Organic Carbon SM 9060A (mg/L)	7.7		0.16	0.5	1	150	0.78	2.5	5		630	2.2	7	14		3400	70	
Alkalinity SM 2320B (mg/L)	360		1.1	3.2	5	660	1.1	3.2	5		540	1.1	3.2	5				R
Methane RSK-175 (µg/L)	21000		0.44	1.6	10	21000	0.44	1.6	10		17000	0.44	1.6	10		4100	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	160		1.1	3.2	5	293.3	1.1	3.2	5		240	1.1	3.2	5				R

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-77
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0114-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0114					G0114					G0114					G0114				
COLLECT DATE	5/22/2021					6/14/2020					6/8/2019					3/23/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.5		0.022	0.05	0.1	5.9		0.044	0.1	0.2	1.5		0.022	0.05	0.1	1.5		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.9		0.69	1	1	5.9		0.69	1	1	1.2		0.69	1	1	2.3		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	1.5		0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	72		1	2.5	5	80		1	3	5	80	J	1	3	5	78		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.7		0.35	0.8	1	3.1		0.35	1	1	3.1		0.16	0.5	1	3.6		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	280		3.1	6.4	10	210		3.1	10	10	230		3.1	10	10	230		1.1	3.2	5
Methane RSK-175 (µg/L)	5500		0.63	2	5	9700		1.9	6	15	6300		1.9	6	15	21000	J	0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	124		3.1	6.4	10	93		3.1	10	10	102		3.1	10	10	102.2		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-77
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0114-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0114					G0114					G0114					G0114		
COLLECT DATE	3/30/2017					8/15/2016					8/17/2015					8/13/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	2.2		0.022	0.05	0.1	2.9	0.11	0.25	0.5		1.5	0.022	0.05	0.1		0.69	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3		0.18	0.5	1	3.4	0.18	0.5	1		1.9	0.18	0.5	1		1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.29	0.019	0.05	0.1		0.52	0.019	0.05	0.1		0.062	0.1	J
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	64		0.23	0.5	5	33	0.23	0.5	5		54	0.23	0.5	5		20	5	
Dissolved Organic Carbon SM 9060A (mg/L)	5.2		0.16	0.5	1	17	0.16	0.5	1		7.1	0.16	0.5	1		9.5	1	
Alkalinity SM 2320B (mg/L)	260		1.1	3.2	5	320	1.1	3.2	5		250	1.1	3.2	5		310	5	
Methane RSK-175 (µg/L)	22000		0.44	1.6	10	18000	0.44	1.6	10		12000	0.44	1.6	10		17000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	115.6		1.1	3.2	5	142.2	1.1	3.2	5		111.1	1.1	3.2	5		137.8	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-78
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0115-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0115					G0115					G0115					G0115				
COLLECT DATE	5/24/2021					6/12/2020					6/7/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	3.8	J	0.022	0.05	0.1	3.7		0.22	0.5	1.0	3.9		0.022	0.05	0.1	4.1		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.2	J	0.69	1	1	4.3		0.69	1	1	5.1		3.4	5	5	7.1	J	0.3	0.83	1.7
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	UJ	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.038	J	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	420	J	5.2	13	25	300		5.2	15	25	200	J	1	3	5	180		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	10	J	0.35	0.8	1	16		0.35	1	1	18		0.16	0.5	1	17		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	820	J	3.1	6.4	10	780		3.1	10	10	980		3.1	10	10	730		1.1	3.2	5
Methane RSK-175 (µg/L)	11000	J	0.63	2	5	23000		3.8	12	30	13000		1.9	6	15	28000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	364	J	3.1	6.4	10	347		3.1	10	10	436		3.1	10	10	324.4		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-78
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0115-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0115					G0115					G0115					G0115		
COLLECT DATE	3/27/2017					8/4/2016					8/6/2015					8/11/2014		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	5.3		0.11	0.25	0.5	4.6	0.044	0.1	0.2		5.6	0.044	0.1	0.2		0.94	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	8.8		0.18	0.5	1	8.1	0.18	0.5	1		7.1	0.18	0.5	1		3.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	0.2	0.019	0.05	0.1		0.019	0.1	J
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	0.8	0.79	1.9	4	J	<	4	U
Sulfate USEPA 9056A (mg/L)	140		0.23	0.5	5	98	0.23	0.5	5		54	0.23	2.5	5		11	5	
Dissolved Organic Carbon SM 9060A (mg/L)	13		0.16	0.5	1	14	0.16	0.5	1		19	0.16	0.5	1		99	1	
Alkalinity SM 2320B (mg/L)	750		1.1	3.2	5	760	1.1	3.2	5		730	1.1	3.2	5		620	5	
Methane RSK-175 (µg/L)	25000		0.44	1.6	10	23000	0.44	1.6	10		21000	0.44	0.8	10		18000	20	
Carbon Dioxide SM 2320B (mg/L)[1]	333.3		1.1	3.2	5	337.8	1.1	3.2	5		324.4	1.1	3.2	5		275.6	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-79
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0116-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0116					G0116					G0116					G0116				
COLLECT DATE	5/22/2021					6/12/2020					6/6/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	14		0.22	0.5	1.0	15		0.22	0.5	1.0	20		0.22	0.5	1.0	14		0.22	0.5	1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	18		2.3	3.3	3	15		1.1	1.7	2	24		3.4	5	5	26		0.6	1.7	3.3
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	240		5.2	13	25	250		5.2	15	25	110	J	1	3	5	35		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	16		0.35	0.8	1	23		1.4	4	4	33	J	0.16	0.5	1	47	J	0.16	0.5	1
Alkalinity SM 2320B (mg/L)	1100		3.1	6.4	10	900		3.1	10	10	1000		3.1	10	10	960		1.1	3.2	5
Methane RSK-175 (µg/L)	9900		0.63	2	5	29000	J	3.8	12	30	17000		1.9	6	15	30000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	489		3.1	6.4	10	400		3.1	10	10	444		3.1	10	10	426.7		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-79
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0116-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0116					G0116					G0116					G0116		
COLLECT DATE	3/25/2017					8/5/2016					8/11/2015					8/13/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	18		0.44	1	2	42	0.44	1	2		59	0.44	1	2		42	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	34		0.9	2.5	5	63	1.8	5	10		58	0.22	5	10		130	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	0.8	4	J
Sulfate USEPA 9056A (mg/L)	11		0.23	0.5	5	12	4.6	10	100	J	8.9	0.23	0.5	5		560	100	
Dissolved Organic Carbon SM 9060A (mg/L)	110		0.46	1.5	2.9	560	1.9	6	12		1200	4	13	26		6900	180	
Alkalinity SM 2320B (mg/L)	810		1.1	3.2	5	680	1.1	3.2	5		660	1.1	3.2	5		930	5	
Methane RSK-175 (µg/L)	21000		0.44	1.6	10	13000	0.22	0.8	5		14000	0	0.8	5		9600	5	
Carbon Dioxide SM 2320B (mg/L)[1]	360		1.1	3.2	5	302.2	1.1	3.2	5		293.3	1.1	3.2	5		413.3	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-80
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0117-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0117					G0117					G0117					G0117				
COLLECT DATE	5/22/2021					6/12/2020					6/6/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	7.3		0.11	0.25	0.5	9.9		0.22	0.5	1.0	14		0.11	0.25	0.5	14		0.22	0.5	1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	8.2		0.69	1	1	9		0.69	1	1	16		3.4	5	5	20		0.6	1.7	3.3
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	350		5.2	13	25	400		5.2	15	25	240	J	5.2	15	25	280		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	11		0.35	0.8	1	13		0.35	1	1	18	J	0.16	0.5	1	21		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	980		3.1	6.4	10	950		3.1	10	10	1000		3.1	10	10	980		1.1	3.2	5
Methane RSK-175 (µg/L)	15000		0.63	2	5	28000		3.8	12	30	15000		1.9	6	15	33000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	436		3.1	6.4	10	422		3.1	10	10	444		3.1	10	10	435.6		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-80
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0117-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0117					G0117					G0117					G0117		
COLLECT DATE	3/27/2017					8/10/2016					8/11/2015					8/12/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	27		0.44	1	2	16	0.11	0.25	0.5		8.5	0.044	0.1	0.2		4.4	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	33		0.72	2	4	19	0.36	1	2		8.3	0.18	0.5	1		6.3	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U	0.057	0.1	J
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U
Sulfate USEPA 9056A (mg/L)	170		0.23	0.5	5	130	0.23	0.5	5		11	0.23	0.5	5		20	5	
Dissolved Organic Carbon SM 9060A (mg/L)	27		0.16	0.5	1	13	0.16	0.5	1		37	0.16	0.5	1		250	6	
Alkalinity SM 2320B (mg/L)	1000		1.1	3.2	5	800	1.1	3.2	5		1000	1.1	3.2	5		810	5	
Methane RSK-175 (µg/L)	25000		0.44	1.6	10	25000	0.44	1.6	10		10000	0.22	0.8	5		19000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	444.4		1.1	3.2	5	355.6	1.1	3.2	5		444.4	1.1	3.2	5		360	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-81
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0118-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0118					G0118					G0118					G0118				
COLLECT DATE	5/22/2021					6/14/2020					6/8/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	8.4		1.1	2.5	5.0	10		0.22	0.5	1.0	9.3		0.11	0.25	0.5	11		0.11	0.25	0.5
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	13		1.7	2.5	3	16		1.1	1.7	2	19	J	17	25	25	22		0.45	1.3	2.5
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	43		1	2.5	5	<	U	10	30	50	3.2	J	1	3	5	4.4	J	0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	22		0.35	0.8	1	44		1.7	5	5	57		0.16	0.5	1	30		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	770		3.1	6.4	10	850		3.1	10	10	1100	J	3.1	10	10	840		1.1	3.2	5
Methane RSK-175 (µg/L)	15000		0.63	2	5	22000		3.8	12	30	8100		1.9	6	15	18000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	342		3.1	6.4	10	378		3.1	10	10	489		3.1	10	10	373.3		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-81
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0118-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0118					G0118					G0118					G0118		
COLLECT DATE	3/29/2017					8/16/2016					8/18/2015					12/9/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	14		0.22	0.5	1	2.8	0.11	0.25	0.5		0.19	0.022	0.1	0.1		**No Analysis**		
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	19		0.9	2.5	5	7.1	0.18	0.5	1		1.6	0.18	0.5	1				
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U			
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U			
Sulfate USEPA 9056A (mg/L)	<	U	0.46	1	10	13	0.23	0.5	5		8.2	0.23	0.5	5				
Dissolved Organic Carbon SM 9060A (mg/L)	64		0.31	1	2	26	0.16	0.5	1		49	0.16	0.5	1				
Alkalinity SM 2320B (mg/L)	1100		1.1	3.2	5	800	1.1	3.2	5		550	1.1	3.2	5				
Methane RSK-175 (µg/L)	19000	J	0.44	1.6	10	14000	0.22	0.8	5		12000	0.22	0.8	5				
Carbon Dioxide SM 2320B (mg/L)[1]	488.9		1.1	3.2	5	355.6	1.1	3.2	5		244.4	1.1	3.2	5				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-82
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0119-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0119					G0119					G0119					G0119				
COLLECT DATE	5/23/2021					6/13/2020					6/7/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.35		0.022	0.05	0.1	0.28		0.022	0.05	0.1	0.35		0.022	0.05	0.1	0.68		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.1		0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	2.3		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	680		10	25	50	700		5.2	15	25	660	J	5.2	15	25	600		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	4.7		0.35	0.8	1	5.4		0.35	1	1	5.2		0.16	0.5	1	5.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	480		3.1	6.4	10	520		3.1	10	10	520		3.1	10	10	470		1.1	3.2	5
Methane RSK-175 (µg/L)	2100	J	0.63	2	5	10000		1.9	6	15	7100		0.63	2	5	16000		0.44	1.6	10
Carbon Dioxide SM 2320B (mg/L)[1]	213		3.1	6.4	10	231		3.1	10	10	231		3.1	10	10	208.9		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-82
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0119-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0119					G0119					G0119					G0119		
COLLECT DATE	3/28/2017					8/10/2016					8/7/2015					12/8/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	2.8		0.022	0.05	0.1	2.9	0.022	0.05	0.1		0.63	0.022	0.05	0.1	J	**No Analysis**		
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.1	J	0.18	0.5	1	7.3	0.36	1	2		1.1	0.18	0.5	1				
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U			
Sulfide SM 9034 (mg/L)	6.4		0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U			
Sulfate USEPA 9056A (mg/L)	490		1.2	2.5	25	31	0.23	0.5	5		380	1.2	2.5	25				
Dissolved Organic Carbon SM 9060A (mg/L)	6.3		0.16	0.5	1	250	0.93	3	6		4.7	0.16	0.5	1				
Alkalinity SM 2320B (mg/L)	550		1.1	3.2	5	910	1.1	3.2	5		380	1.1	3.2	5				
Methane RSK-175 (µg/L)	16000		0.44	1.6	10	15000	0.44	1.6	10		9900	0.22	0.8	5				
Carbon Dioxide SM 2320B (mg/L)[1]	244.4		1.1	3.2	5	404.4	1.1	3.2	5		168.9	1.1	3.2	5				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-83
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0120-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0120					G0120					G0120					G0120				
COLLECT DATE	None.					6/12/2020					6/7/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)						16		0.22	0.5	1.0	15		0.11	0.25	0.5	16		0.22	0.5	1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				15		1.1	1.7	2	17		3.4	5	5	26		0.6	1.7	3.3
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				<	U	0.019	0.05	0.1	<	UJ	0.019	0.05	0.1	<	U	0.019	0.05	0.1
Sulfide SM 9034 (mg/L)						<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)						260		5.2	15	25	190	J	1	3	5	160		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)						25		0.69	2	2	26		0.16	0.5	1	31		0.16	0.5	1
Alkalinity SM 2320B (mg/L)						830		3.1	10	10	970		3.1	10	10	990		1.1	3.2	5
Methane RSK-175 (µg/L)						26000		3.8	12	30	13000		1.9	6	15	24000	J	0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]						369		3.1	10	10	431		3.1	10	10	440		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-83
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0120-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0120					G0120					G0120					G0120		
COLLECT DATE	3/25/2017					8/9/2016					8/11/2015					12/8/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	20		0.44	1	2	20	0.22	0.5	1		21	0.22	0.5	1				
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	27		0.72	2	4	23	0.9	2.5	5		19	0.9	2.5	5		**No Analysis**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.05	0.1	U			
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U			
Sulfate USEPA 9056A (mg/L)	48		0.23	0.5	5	110	0.23	0.5	5		36	0.23	0.5	5				
Dissolved Organic Carbon SM 9060A (mg/L)	44		0.16	0.5	1	31	0.16	0.5	1		96	0.39	1.3	2.5				
Alkalinity SM 2320B (mg/L)	1000		1.1	3.2	5	1000	1.1	3.2	5		1100	1.1	3.2	5				
Methane RSK-175 (µg/L)	23000		0.44	1.6	10	21000	0.44	1.6	10		18000	0.44	1.6	10				
Carbon Dioxide SM 2320B (mg/L)[1]	444.4		1.1	3.2	5	444.4	1.1	3.2	5		488.9	1.1	3.2	5				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-84
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0121-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0121					G0121					G0121					G0121				
COLLECT DATE	5/24/2021					6/13/2020					6/7/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	24		4.4	10	20.0	3.7		0.022	0.05	0.1	3		0.022	0.05	0.1	2.6		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	44		3.4	5	5	4.4		0.69	1	1	2.4		0.69	1	1	5.8		0.45	1.3	2.5
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.054	J	0.019	0.05	0.1	0.4		0.019	0.05	0.1	0.21		0.019	0.05	0.1	0.17		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	4.8		0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	45		5.2	13	25	570		5.2	15	25	500	J	5.2	15	25	400		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	650		6.6	15	19	8		0.35	1	1	8.1		0.16	0.5	1	12		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	660		3.1	6.4	10	500		3.1	10	10	540		3.1	10	10	630		1.1	3.2	5
Methane RSK-175 (µg/L)	10000		0.63	2	5	10000		0.63	2	5	8600		1.9	6	15	20000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	293		3.1	6.4	10	222		3.1	10	10	240		3.1	10	10	280		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-84
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0121-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0121					G0121				
COLLECT DATE	3/30/2017					11/30/2016				
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS										
Ammonia USEPA 350.1 (mg/L)	4.3		0.022	0.05	0.1					
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	9.1		0.36	1	2	**No Analysis**				
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.31		0.019	0.05	0.1					
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4					
Sulfate USEPA 9056A (mg/L)	42	J	0.23	0.5	5					
Dissolved Organic Carbon SM 9060A (mg/L)	59	J	0.31	1	2					
Alkalinity SM 2320B (mg/L)	860		1.1	3.2	5					
Methane RSK-175 (µg/L)	20000		0.44	1.6	10					
Carbon Dioxide SM 2320B (mg/L)[1]	382.2		1.1	3.2	5					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-85
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0122-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0122-20A					G0122-20A				
COLLECT DATE	5/23/2021					6/16/2020				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS										
Ammonia USEPA 350.1 (mg/L)	3.3		0.22	0.5	1.0	1.9		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.6		0.69	1	1	3		0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.68		0.019	0.05	0.1	0.82		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	4.8		0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	360		5.2	13	25	700		5.2	15	25
Dissolved Organic Carbon SM 9060A (mg/L)	32		0.35	0.8	1	7		0.35	1	1
Alkalinity SM 2320B (mg/L)	1100		3.1	6.4	10	580		3.1	10	10
Methane RSK-175 (µg/L)	11000		0.63	2	5	8500		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]	489		3.1	6.4	10	258		3.1	10	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.1-86
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0123-NATURAL ATTENUATION PARAMETERS

FIELD ID	G0123-20A					G0123-20A				
COLLECT DATE	5/24/2021					6/16/2020				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS										
Ammonia USEPA 350.1 (mg/L)	1.9	J	0.022	0.05	0.1	0.24		0.022	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.5	J	0.69	1	1	0.84	J	0.69	1	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	UJ	0.019	0.05	0.1	0.31		0.019	0.05	0.1
Sulfide SM 9034 (mg/L)	<	UJ	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	230	J	5.2	13	25	490		5.2	15	25
Dissolved Organic Carbon SM 9060A (mg/L)	9.4	J	0.35	0.8	1	5.6		0.35	1	1
Alkalinity SM 2320B (mg/L)	760	J	3.1	6.4	10	520		3.1	10	10
Methane RSK-175 (µg/L)	18000	J	0.63	2	5	15000		0.63	2	5
Carbon Dioxide SM 2320B (mg/L)[1]	338	J	3.1	6.4	10	231		3.1	10	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

E.2 Natural Attenuation Parameters

E.2.2 OU1 ON-POST PZ WELLS

WELL	TABLE
PZ001	E.2.2-1
PZ004	E.2.2-2
PZ005	E.2.2-3
PZ006	E.2.2-4
PZ007	E.2.2-5
PZ008	E.2.2-6
PZ009	E.2.2-7
PZ010	E.2.2-8
PZ011	E.2.2-9
PZ012	E.2.2-10
PZ013	E.2.2-11
PZ014	E.2.2-12
PZ015	E.2.2-13
PZ016	E.2.2-14
PZ017/PZ017R	E.2.2-15
PZ018	E.2.2-16
PZ019	E.2.2-17
PZ020	E.2.2-18

TABLE E.2.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ001					PZ001					PZ001					PZ001				
COLLECT DATE	5/24/2021					6/10/2020					6/4/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.029	J	0.022	0.05	0.1	0.026	J	0.022	0.05	0.1	0.03	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.85	J	0.69	1	1	0.74	J	0.69	1	1	<	UJ	0.69	1	1	0.61	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.059	J	0.019	0.05	0.1	1.4	J	0.019	0.05	0.1	0.82	J	0.019	0.05	0.1	1.6		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	2.4	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1300	J	10	25	50	980		10	30	50	1200		10	30	50	1100		4.6	10	100
Dissolved Organic Carbon SM 9060A (mg/L)	6.6		0.35	0.8	1	5.6		0.35	1	1	6.2		0.16	0.5	1	6.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	520		3.1	6.4	10	500		3.1	10	10	550		3.1	10	10	530		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	1.6	J	0.63	2	5	7.8	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	231		3.1	6.4	10	222		3.1	10	10	244		3.1	10	10	236		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ001					PZ001					PZ001					PZ001		
COLLECT DATE	3/24/2017					8/4/2016					8/5/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.25	J	0.022	0.05	0.1	0.032	0.022	0.05	0.1	J	0.059	0.022	0.050	0.10	J	0.084	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<		0.36	1	2	0.27	0.18	0.5	1	J	0.33	0.18	0.50	1.0	J	0.37	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.9		0.019	0.05	0.1	2.1	0.019	0.05	0.1		6.2	0.038	0.050	0.20		1.2	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	1000	J	0.23	0.5	5	1100	2.3	5	50	J	1000	2.3	5.0	50		1300	250	
Dissolved Organic Carbon SM 9060A (mg/L)	6.3		0.31	1	2	6.3	0.16	0.5	1		6.3	0.16	0.5	1.0		7.0	1	
Alkalinity SM 2320B (mg/L)	560		1.1	3.2	5	560	1.1	3.2	5		550	1.1	3.2	5.0		500	5	
Methane RSK-175 (µg/L)	13		0.44	1.6	10	75	0.22	0.8	5		55	0.22	0.80	5.0	J	150	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	249		1.1	3.2	5	249	1.1	3.2	5		244	1.1	3.2	5.0		222	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ001			PZ001			PZ001			PZ001			PZ001			PZ001			PZ001		
COLLECT DATE	3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009			3/17/2008			3/14/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.058	0.25	UJ	<	0.25	UJ	<	0.25	UJ	0.091	0.1	J	0.093	0.05		0.26	0.05		0.14	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.302	1	UJ	<	1	UJ	0.475	1	J	0.44	1	J	<	1	U	1	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.3	0.1		1.4	0.1		0.081	0.1	J	1.8	0.1		0.6	0.05		1.7	0.05		2	1	J
Sulfide SM 9034 (mg/L)	0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	911	25		890	25		1050	50		810	100		730	50		530	100	J	630	50	
Dissolved Organic Carbon SM 9060A (mg/L)	6.1	1		5.3	1		6.4	1		5	1		5.3	1		7.2	1		4.5	1	
Alkalinity SM 2320B (mg/L)	510	1.25		470	1.25		455	1		470	5		470	20		600	4		500	8	
Methane RSK-175 (µg/L)	72	5		100	5		230	5		220	5		8.7	0.31		10	1.7		<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	227	1.25		209	1.25		202	0.4		210	2.2		210	0.22		264	0.88		220	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ001			PZ001			PZ001			PZ001			PZ001			PZ001			PZ001		
COLLECT DATE	3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/22/2002			3/28/2001			3/15/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	0.13	0.20	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	0.68	U	<	0.31	U	0.31	0.40	J	0.332	0.1		0.577	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.67	0.05		1.2	0.05		0.79	0.1		1.1	0.1		2.0	0.10		1.7	0.5		1.01	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	2	U	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	470	50		580	50		610	40		670	25		640	25		633	50		626	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.9	1		5.3	1		5.3	1		5.1	1		5.2	1.0		10.6	10		6.50	5	
Alkalinity SM 2320B (mg/L)	490	8		490	8		450	5		460	5		450	5.0		428	5		497	5	
Methane RSK-175 (µg/L)	<	0.87	U	0.4	0.87	J	<	2	U	<	2	U	<	2.0	U	0.4	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	210	0.88		220	0.1		198	1		202	1		200	1.0		188	5		219	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-1
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ001		
COLLECT DATE	3/31/1999		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.491	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	703	10	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U
Alkalinity SM 2320B (mg/L)	452	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	199	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ004					PZ004					PZ004					PZ004				
COLLECT DATE	5/24/2021					6/10/2020					6/4/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.049	J	0.22	0.05	0.1	0.085	J	0.022	0.05	0.1	0.07	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.81	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.4		0.019	0.05	0.1	0.39		0.019	0.05	0.1	0.94	J	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1200		10	25	50	970		10	30	50	1100		10	30	50	1100		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	6.2		0.35	0.8	1	5.4		0.35	1	1	6.2		0.16	0.5	1	6.7		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	510		3.1	6.4	10	490		3.1	10	10	550		3.1	10	10	500		1.1	3.2	5
Methane RSK-175 (µg/L)	1	J	0.63	2	5	10		0.63	2	5	0.84	J	0.63	2	5	16	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	227		3.1	6.4	10	218		3.1	10	10	244		3.1	10	10	222		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ004					PZ004					PZ004					PZ004		
COLLECT DATE	3/24/2017					8/4/2016					8/5/2015					8/18/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.08	J	0.022	0.05	0.1	0.076	0.022	0.05	0.1	J	0.076	0.022	0.050	0.10	J	0.15	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.19	0.18	0.5	1	J	0.59	0.18	0.50	1.0	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.3		0.019	0.05	0.1	0.57	0.019	0.05	0.1		0.88	0.019	0.050	0.10		1.0	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	930		2.3	5	50	960	2.3	5	50		870	2.3	5.0	50		970	25	
Dissolved Organic Carbon SM 9060A (mg/L)	5.8		0.16	0.5	1	6.2	0.16	0.5	1		5.6	0.16	0.50	1.0		5.7	1	
Alkalinity SM 2320B (mg/L)	510		1.1	3.2	5	550	1.1	3.2	5		500	1.1	5.0	5.0		490	5	
Methane RSK-175 (µg/L)	94		0.22	0.8	5	160	0.22	0.8	5		37	0.22	0.80	5.0	J	250	5	
Carbon Dioxide SM 2320B (mg/L)[1]	227		1.1	3.2	5	244	1.1	3.2	5		222	1.1	3.2	5.0		218	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ004			PZ004			PZ004			PZ004			PZ004			PZ004			PZ004		
COLLECT DATE	3/11/2013			3/5/2012			3/7/2011			3/2/2010			3/9/2009			3/17/2008			3/14/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.663	0.25	UJ	<	0.25	UJ	<	0.25	UJ	0.071	0.1	J	<	0.05	U	0.33	0.05		0.094	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.636	1	UJ	<	1	UJ	0.403	1	J	0.34	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.3	0.1		1.4	0.1		0.047	0.1	J	0.069	0.1	J	<	0.05	U	<	0.05	U	0.071	0.05	J
Sulfide SM 9034 (mg/L)	0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	778	25		879	25		826	25		820	100		420	50		760	100		630	50	
Dissolved Organic Carbon SM 9060A (mg/L)	5.5	1		5.3	1		5.6	1		5.5	1		4.9	1		5.7	1		4.2	1	
Alkalinity SM 2320B (mg/L)	470	1.25		475	1.25		565	1		490	5		460	20		450	4		460	8	
Methane RSK-175 (µg/L)	51	5		100	5		48	5		67	5		5.4	0.31		<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	209	1.25		211	1.25		251	0.4		220	2.2		200	0.22		198	0.88		200	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ004			PZ004			PZ004			PZ004			PZ004			PZ004			PZ004		
COLLECT DATE	3/27/2006			3/22/2005			3/23/2004			3/20/2003			3/22/2002			3/30/2001			3/15/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.054	0.05		0.14	0.05		<	0.22	U	0.14	0.2	J	0.19	0.20	J	0.19	0.1		0.113	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	0.64	U	<	0.39	U	0.45	0.20		0.425	0.1		0.668	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.19	0.05		0.58	0.05		0.75	0.1		<	0.5	U	0.50	0.10		<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.8	1.0		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	550	50		540	50		530	20		650	25		660	25		644	50		795	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.2	1		4.6	1		4.5	1		4.7	1		4.8	1.0		<	5	U	6.20	5	
Alkalinity SM 2320B (mg/L)	430	8		440	8		440	5		470	5		480	5.0		440	5		442	5	
Methane RSK-175 (µg/L)	<	0.87	U	0.44	0.87	J	<	2	U	<	2	U	<	2.0	U	0.37	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	190	0.88		190	0.1		194	1		207	1		210	1.0		194	5		194	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-2
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ004		
COLLECT DATE	3/31/1999		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.449	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	766	10	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U
Alkalinity SM 2320B (mg/L)	528	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	232	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ005					PZ005					PZ005					PZ005				
COLLECT DATE	5/24/2021					6/11/2020					6/5/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.024	J	0.022	0.05	0.1	0.05	J	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	0.81	J	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.5		0.019	0.05	0.1	11		0.038	0.1	0.2	0.44	J	0.019	0.05	0.1	6		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	1400		10	25	50	1400		10	30	50	1300		10	30	50	1200		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	7.7		0.35	0.8	1	8.9		0.35	1	1	5.5		0.16	0.5	1	7.3		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	630		3.1	6.4	10	620		3.1	10	10	470		3.1	10	10	590		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	0.88	J	0.63	2	5	0.91	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	280		3.1	6.4	10	276		3.1	10	10	209		3.1	10	10	262		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ005					PZ005					PZ005					PZ005		
COLLECT DATE	3/23/2017					8/8/2016					8/5/2015					8/7/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	0.023	0.022	0.050	0.10	J	0.031	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	0.47	0.18	0.50	1.0	J	0.25	1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	2.7	0.019	0.05	0.1		1.4	0.019	0.050	0.10		0.32	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	880		2.3	5	50	1100	2.3	5	50		710	2.3	5.0	50		370	25	
Dissolved Organic Carbon SM 9060A (mg/L)	5.1		0.16	0.5	1	6.8	0.16	0.5	1		7.1	0.16	0.50	1.0		2.9	1	
Alkalinity SM 2320B (mg/L)	560		1.1	3.2	5	570	1.1	3.2	5		530	1.1	3.2	5.0		410	5	
Methane RSK-175 (µg/L)	0.4	J	0.22	0.8	5	<	0.22	0.8	5	U	<	0.22	0.80	5.0	UJ	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	249		1.1	3.2	5	253	1	3.2	5		236	1.1	3.2	5.0		182	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ005			PZ005			PZ005			PZ005			PZ005			PZ005			PZ005			PZ005		
COLLECT DATE	3/8/2013			None			3/13/2008			3/13/2007			3/29/2006			3/18/2005			3/23/2004		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.41	0.25					0.27	0.05		<	0.05	U	<	0.05	U	0.06	0.05		<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.946	1	J	**Not Sampled**			1.3	1		<	1	U	<	1	U	1.4	1		<	0.56	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.209	0.1		**in 2009, 2010, 2011,**			0.49	0.05		0.5	0.05	J	0.52	0.05		0.31	0.05		<	1	U
Sulfide SM 9034 (mg/L)	0.2	2	J	**2012**			<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	726	25					660	100		540	50		460	50		420	50		390	20	
Dissolved Organic Carbon SM 9060A (mg/L)	4.26	1					5	1		3.8	1		4	1		4.5	1		3.7	1	
Alkalinity SM 2320B (mg/L)	391	1.25					380	4		390	8		350	8		360	8		380	5	
Methane RSK-175 (µg/L)	<	5	U				1	1.7	J	0.86	0.87	J	0.37	0.87	J	0.88	0.87		<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	174	10					167	1.8		170	0.88		150	NRL		160	0.1		167	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-3
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ005-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ005			PZ005			PZ005			PZ005			PZ005		
COLLECT DATE	3/21/2003			3/21/2002			3/28/2001			3/17/2000			3/30/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	0.18	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.24	U	<	0.54	U	0.416	0.1		0.462	0.1		0.451	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.69	0.1		0.85	0.10		<	0.5	U	0.838	1		1.23	1	
Sulfide SM 9034 (mg/L)	1	1		<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	460	25		470	25		690	50		549	5		568	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.9	1		4.9	1.0		<	5	U	8	5		<	5	U
Alkalinity SM 2320B (mg/L)	430	5		430	5.0		370	5		391	5		415	5	
Methane RSK-175 (µg/L)	<	2	U	<	2.0	U	2.7	1		<	1.2	U	<	2.2	U
Carbon Dioxide SM 2320B (mg/L)[1]	189	1		190	1.0		163	5		172	2.2		183	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-4
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ006-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ006			PZ006			PZ006			PZ006			PZ006			PZ006			PZ006		
COLLECT DATE	None			3/13/2008			3/13/2007			3/29/2006			3/18/2005			3/23/2004			3/20/2003		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.64	0.05		0.27	0.05		0.17	0.05		0.41	0.05		<	0.35	U	0.25	0.2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			1.9	1		<	1	U	<	1	U	1.6	1		<	0.47	U	0.62	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2009**			0.092	0.05		<	0.05	U	<	0.05	U	<	0.05	U	<	1	U	<	0.5	U
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				1000	100		870	50		780	50		700	50		660	40		740	25	
Dissolved Organic Carbon SM 9060A (mg/L)				<	1	U	4.6	1		4.7	1		4.8	1		4.2	1		4.2	1	
Alkalinity SM 2320B (mg/L)				380	4		400	8		360	8		370	8		340	5		370	5	
Methane RSK-175 (µg/L)				1.4	1.7	J	3.2	0.87		1.7	0.87		5.3	0.87		<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]				167	1.8		180	0.88		160	NRL		160	0.1		150	1		163	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-4
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ006-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ006			PZ006			PZ006			PZ006		
COLLECT DATE	3/21/2002			3/28/2001			3/17/2000			3/30/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.27	0.20		0.24	0.1		0.181	0.1		0.201	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.44	U	0.483	0.1		0.451	0.1		0.791	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.94	0.10		<	0.5	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	1.7	1.0		<	1	U	<	1	UJ	<	1	U
Sulfate USEPA 9056A (mg/L)	540	25		738	50		534	5		665	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.5	1.0		<	5	U	<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	420	5.0		348	5		412	5		388	5	
Methane RSK-175 (µg/L)	<	2.0	U	3.4	1		<	1.5	U	7.16	1	
Carbon Dioxide SM 2320B (mg/L)[1]	190	1.0		153	5		181	2.2		171	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ007					PZ007					PZ007					PZ007				
COLLECT DATE	5/25/2021					6/11/2020					6/5/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.035	J	0.022	0.05	0.1	0.042	J	0.022	0.05	0.1	0.077	J	0.022	0.05	0.1	0.11		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	UJ	0.69	1	1	0.71	J	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.8		0.019	0.05	0.1	0.96		0.019	0.05	0.1	0.099	J	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	UJ	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	510	J	5.2	13	25	580		5.2	15	25	930		10	30	50	1200	J	2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.35	0.8	1	3.1		0.35	1	1	4.7		0.16	0.5	1	5.3		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	390		3.1	6.4	10	410		3.1	10	10	430		3.1	10	10	440		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	0.7	J	0.63	2	5	1.1	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	173		3.1	6.4	10	182		3.1	10	10	191		3.1	10	10	196		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ007					PZ007					PZ007					PZ007		
COLLECT DATE	3/27/2017					8/4/2016					8/5/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.047	J	0.022	0.05	0.1	0.028	0.022	0.05	0.1	J	0.033	0.022	0.050	0.10	J	0.04	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.39	0.18	0.5	1	J	0.57	0.18	0.50	1.0	J	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.42		0.019	0.05	0.1	0.66	0.019	0.05	0.1		0.54	0.019	0.050	0.10		1.2	0.1	J
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	480		1.2	2.5	25	680	2.3	5	50	J	570	2.3	5.0	50		610	50	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3		0.16	0.5	1	3.5	0.16	0.5	1		3.4	0.16	0.50	1.0		3.1	1	
Alkalinity SM 2320B (mg/L)	410		1.1	3.2	5	400	1.1	3.2	5		390	1.1	3.2	5.0		390	5	
Methane RSK-175 (µg/L)	0.51	J	0.22	0.8	5	0.41	0.22	0.8	5	J	<	0.22	0.80	5.0	UJ	1.5	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	182		1.1	3.2	5	178	1.1	3.2	5		173	1.1	3.2	5.0		173	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ007			PZ007			PZ007			PZ007			PZ007			PZ007			PZ007		
COLLECT DATE	3/12/2013			3/7/2012			3/9/2011			3/12/2010			3/11/2009			3/14/2008			3/15/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.552	0.25	J	<	0.25	U	<	0.25	UJ	0.04	0.1	J	<	0.05	U	0.23	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.118	1	J	<	1	UJ	0.294	1	J	<	1	U	<	1	U	1.3	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.454	0.1		0.503	0.1		0.29	0.1		0.44	0.1	J	0.63	0.05		<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	<	2	U	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	562	25		587	25		566	25		560	100		770	50		1000	100		490	100	
Dissolved Organic Carbon SM 9060A (mg/L)	3.8	1		3.3	1		4.1	1		3.1	1		4.3	1		5.5	1		3.8	1	
Alkalinity SM 2320B (mg/L)	380	1.25		500	1.25		465	1		440	5		410	20		440	4		420	8	
Methane RSK-175 (µg/L)	<	5	U	0.98	5	J	<	5	UJ	<	5	U	0.64	0.31		0.88	1.7	J	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	169	10		222	1.25		207	0.4		190	2.2		180	0.22		194	0.88		190	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ007			PZ007			PZ007			PZ007			PZ007			PZ007			PZ007		
COLLECT DATE	3/28/2006			3/17/2005			3/23/2004			3/19/2003			3/26/2002			3/27/2001			3/20/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.07	0.05		<	0.2	U	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.4	1		<	0.4	U	<	0.24	U	0.41	0.40		0.923	0.1		0.385	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.37	0.05		0.67	0.05		0.72	0.1		0.6	0.1		1.2	0.10		0.371	0.5	J	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	3	1		<	1	U	1.6	1		<	1.0	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	480	50		440	50		310	20		350	25		310	25		350	5		323	2	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3	1		3.4	1		2.7	1		2.7	1		2.8	1.0		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	390	8		370	8		310	5		330	5		370	5.0		355	5		366	5	
Methane RSK-175 (µg/L)	<	0.87	U	0.49	0.87	J	<	2	U	<	2	U	<	2.0	U	0.93	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	170	0.88		160	0.1		136	1		145	1		160	1.0		156	5		161	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-5
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ007-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ007		
COLLECT DATE	3/30/1999		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.382	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.01	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	288	5	
Dissolved Organic Carbon SM 9060A (mg/L)	5.00	5	
Alkalinity SM 2320B (mg/L)	384	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	169	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-6
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ008-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ008			PZ008			PZ008			PZ008			PZ008			PZ008			PZ008		
COLLECT DATE	None			3/14/2008			3/15/2007			3/28/2006			3/17/2005			3/23/2004			3/19/2003		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.22	0.05		<	0.05	U	<	0.05	U	0.06	0.05		<	0.2	U	<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	U	<	1	U	1.2	1		<	0.4	U	<	0.2	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2009**			0.2	0.05		0.2	0.05		0.66	0.05		0.57	0.05		1.2	0.1		0.61	0.1	
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.7	1	
Sulfate USEPA 9056A (mg/L)				430	100		470	50		240	50		280	50		240	20		270	10	
Dissolved Organic Carbon SM 9060A (mg/L)				3.7	1		3.3	1		2.6	1		2.5	1		2.2	1		2.4	1	
Alkalinity SM 2320B (mg/L)				410	4		400	8		340	8		320	8		310	5		350	5	
Methane RSK-175 (µg/L)				<	1.7	U	<	0.87	U	<	0.87	U	0.45	0.87	J	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]				180	0.88		180	0.88		150	0.88		140	0.1		136	1		154	1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-6
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ008-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ008			PZ008			PZ008			PZ008		
COLLECT DATE	3/25/2002			3/27/2001			3/20/2000			3/30/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.1	0.40		0.627	0.1		0.367	0.01		0.822	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.3	0.10		0.397	0.5	J	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	250	10		276	5		229	2		335	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.8	1.0		5	5		<	5	U	5.90	5	
Alkalinity SM 2320B (mg/L)	350	5.0		342	5		379	5		404	5	
Methane RSK-175 (µg/L)	<	2.0	U	0.82	1	J	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	150	1.0		150	5		167	2.2		178	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ009					PZ009					PZ009					PZ009				
COLLECT DATE	5/22/2021					6/10/2020					6/5/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.035	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	UJ	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.1		0.019	0.05	0.1	5.8		0.019	0.05	0.1	4.2		0.019	0.05	0.1	3.6	J	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	740		10	25	50	620		5.2	15	25	530	J	5.2	15	25	460		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	5.8		0.35	0.8	1	5.8		0.35	1	1	4.8		0.16	0.5	1	4.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	520		3.1	6.4	10	500		3.1	10	10	500		3.1	10	10	490		1.1	3.2	5
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	231		3.1	6.4	10	222		3.1	10	10	222		3.1	10	10	218		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ009					PZ009					PZ009					PZ009		
COLLECT DATE	3/24/2017					8/8/2016					8/6/2015					8/13/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.039	0.022	0.05	0.1	J	<	0.022	0.050	0.10	U	0.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.50	1.0	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.8		0.019	0.05	0.1	0.43	0.019	0.05	0.1		1.8	0.019	0.050	0.10		0.069	0.1	J
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	370		1.2	2.5	25	350	1.2	2.5	25		260	1.2	2.5	25		250	25	
Dissolved Organic Carbon SM 9060A (mg/L)	4.5		0.16	0.5	1	4.1	0.16	0.5	1		2.9	0.16	0.50	1.0		3.0	1	
Alkalinity SM 2320B (mg/L)	510		1.1	3.2	5	470	1.1	3.2	5		430	1.1	3.2	5.0		370	5	
Methane RSK-175 (µg/L)	0.42	J	0.22	0.8	5	2.1	0.22	0.8	5	J	0.71	0.22	0.80	5.0	J	1.8	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	227		1.1	3.2	5	209	1.1	3.2	5		191	1.1	3.2	5.0		164	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ009			PZ009			PZ009			PZ009			PZ009			PZ009			PZ009		
COLLECT DATE	3/14/2013			3/9/2012			3/10/2011			3/16/2010			3/12/2009			3/17/2008			3/16/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.477	0.25		<	0.25	UJ	0.334	0.25		0.2	0.1		<	0.05	U	0.16	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.861	1	J	<	1	UJ	0.497	1	J	0.38	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.651	0.1		0.037	0.1	J	0.057	0.1	J	0.34	0.1		0.5	0.05		0.63	0.05		4.8	1	J
Sulfide SM 9034 (mg/L)	0.2	2	J	1.2	2	J	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	27.1	1		498	25		476	25		340	50		220	50		170	10	J	320	50	
Dissolved Organic Carbon SM 9060A (mg/L)	3.2	1		4.1	1		3.9	1		2.7	1		3.5	1		3.9	1		3.1	1	
Alkalinity SM 2320B (mg/L)	366	1.25		370	1.25		465	1		380	5		420	20		420	4		390	8	
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	<	5	UJ	0.29	5	J	2.9	0.31		2.8	1.7		<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	163	10		164	1.25		207	0.4		170	2.2		180	0.22		185	0.88		170	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ009			PZ009			PZ009			PZ009			PZ009			PZ009			PZ009		
COLLECT DATE	3/28/2006			3/16/2005			3/18/2004			3/20/2003			3/25/2002			3/26/2001			3/20/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.09	0.05		<	0.2	U	<	0.2	U	<	0.4	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.5	1		0.36	0.2		0.25	0.2		0.52	0.4		<	0.1	U	0.367	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.3	0.1		3.1	0.1		1.3	0.1		<	0.1	U	0.44	0.1		0.43	0.5	J	1.05	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	210	50		250	50		210	10		180	10		170	10		197	2.5		123	2	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3	1		3.1	1		3.1	1		3	1		3	1		<	5	U	5.40	5	
Alkalinity SM 2320B (mg/L)	380	8		400	8		380	5		400	5		400	5		351	5		338	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	170	0.88		180	0.1		167	1		176	1		180	1		154	5		149	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-7
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ009		
COLLECT DATE	3/31/1999		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.439	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	108	5	
Dissolved Organic Carbon SM 9060A (mg/L)	11.8	5	
Alkalinity SM 2320B (mg/L)	411	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	181	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ010					PZ010					PZ010					PZ010				
COLLECT DATE	5/22/2021					6/10/2020					6/6/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.24		0.022	0.05	0.1	0.36		0.022	0.05	0.1	0.29		0.022	0.05	0.1	0.63		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.84	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	9.6		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.2		0.019	0.05	0.1	7.6		0.038	0.1	0.2	6.1		0.019	0.05	0.1	9.7		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	680		10	25	50	410		5.2	15	25	200	J	1	3	5	290		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	6.3		0.35	0.8	1	5.7		0.35	1	1	5.4	J	0.16	0.5	1	4.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	520		3.1	6.4	10	480		3.1	10	10	340		3.1	10	10	630		1.1	3.2	5
Methane RSK-175 (µg/L)	1700		0.63	2	5	2200		0.63	2	5	1700		0.63	2	5	6000	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	231		3.1	6.4	10	213		3.1	10	10	151		3.1	10	10	280		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ010					PZ010					PZ010					PZ010		
COLLECT DATE	3/24/2017					8/5/2016					8/6/2015					8/13/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.2		0.022	0.05	0.1	0.4	0.022	0.05	0.1		1.9	0.022	0.050	0.10		4.7	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.9		0.18	0.5	1	0.79	0.18	0.5	1	J	2.7	0.18	0.50	1.0		6.8	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.74		0.019	0.05	0.1	6.7	0.019	0.05	0.1		2.2	0.019	0.050	0.10		<	0.1	U
Sulfide SM 9034 (mg/L)	2	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	8.2	4	
Sulfate USEPA 9056A (mg/L)	320		1.2	2.5	25	140	0.23	0.5	5		190	0.23	0.50	5.0		200	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.4		0.16	0.5	1	3.5	0.16	0.5	1		3.6	0.16	0.50	1.0		10	1	
Alkalinity SM 2320B (mg/L)	520		1.1	3.2	5	470	1.1	3.2	5		540	1.1	3.2	5.0		540	5	
Methane RSK-175 (µg/L)	10000		0.22	0.8	5	5500	0.22	0.8	5		7700	0.22	0.80	5.0	J	17000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	231		1.1	3.2	5	209	1.1	3.2	5		240	1.1	3.2	5.0		240	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ010			PZ010			PZ010			PZ010			PZ010			PZ010			PZ010		
COLLECT DATE	3/19/2013			3/9/2012			3/10/2011			3/16/2010			3/12/2009			3/17/2008			3/16/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	6.1	0.25		9.9	0.25		8.7	0.25		15	1		<	0.05	U	0.15	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	19	1		23	1		15	1		30	20		<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.062	0.1	J	0.177	0.1		0.277	0.1		0.09	0.1	J	0.39	0.05		0.6	0.05		3.3	1	
Sulfide SM 9034 (mg/L)	7.01	2		2	2		0.2	2	J	13	1		<	1	U	<	1	U	2	1	
Sulfate USEPA 9056A (mg/L)	199	10		79	1		61	1		11	5		330	20		230	20		310	50	
Dissolved Organic Carbon SM 9060A (mg/L)	9	1		30	1		73	1		420	11		3.7	1		5	1		3.3	1	
Alkalinity SM 2320B (mg/L)	525	1.25		480	1.25		435	1		530	5		360	20		440	4		400	8	
Methane RSK-175 (µg/L)	6300	39		6700	500		7300	500		9500	100		0.26	0.31	J	2.2	1.7		<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	233	10		213	1.25		193	0.4		230	2.2		160	0.22		194	0.88		180	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ010			PZ010			PZ010			PZ010			PZ010			PZ010			PZ010		
COLLECT DATE	3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/25/2002			3/26/2001			3/20/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	<	0.40	U	<	0.1	U	0.116	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.3	1		0.23	0.2		<	0.2	U	0.32	0.40	J	0.211	0.1		0.437	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.8	0.05		0.74	0.05		0.44	0.1		0.36	0.1		0.28	0.10		0.189	0.5	J	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	1.4	1		<	1.0	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	180	100		190	50		170	10		160	10		150	5.0		194	5		125	2	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5	1		3	1		2.8	1		2.6	1		2.8	1.0		5.6	5		14.6	5	
Alkalinity SM 2320B (mg/L)	360	8		370	8		340	5		380	5		380	5.0		393	5		391	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	160	0.88		160	0.1		150	1		167	1		170	1.0		173	5		172	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-8
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ010		
COLLECT DATE	4/2/1999		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.284	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.634	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.5	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	153	5	
Dissolved Organic Carbon SM 9060A (mg/L)	14.2	5	
Alkalinity SM 2320B (mg/L)	360	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	158	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ011					PZ011					PZ011					PZ011				
COLLECT DATE	5/22/2021					6/10/2020					6/7/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	8.5		0.22	0.5	1	6.2		0.11	0.25	0.5	9.1		0.11	0.25	0.5	12		0.22	0.5	1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	13		1.4	2	2	4.5		1.1	1.7	1.7	10		3.4	5	5	15	J	4.5	13	25
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	480		5.2	13	25	350		5.2	15	25	320	J	5.2	15	25	230		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	11		0.35	0.8	1	11		0.35	1	1	14		0.16	0.5	1	5.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	810		3.1	6.4	10	740		3.1	10	10	820		3.1	10	10	780		1.1	3.2	5
Methane RSK-175 (µg/L)	12000		0.63	2	5	23000		3.8	12	30	17000		1.9	6	15	####		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	360		3.1	6.4	10	329		3.1	10	10	364		3.1	10	10	347		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ011					PZ011					PZ011					PZ011		
COLLECT DATE	3/24/2017					8/8/2016					8/10/2015					8/19/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	8.3		0.11	0.25	0.5	5.5	0.044	0.1	0.2		3.2	0.044	0.10	0.20		1.8	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	12		0.36	1	2	5.8	0.18	0.5	1		5.0	0.18	0.50	1.0		1.8	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.050	0.10	U	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	120		0.23	0.5	5	98	0.23	0.5	5		80	1.2	2.5	25		45	5	
Dissolved Organic Carbon SM 9060A (mg/L)	24		0.16	0.5	1	12	0.16	0.5	1		140	0.65	2.1	4.2		12	1	
Alkalinity SM 2320B (mg/L)	900		1.1	3.2	5	930	1.1	3.2	5		910	1.1	3.2	5.0		720	5	
Methane RSK-175 (µg/L)	19000		0.44	1.6	10	17000	0.65	2.4	15		12000	0.22	0.80	5.0		20000	10	
Carbon Dioxide SM 2320B (mg/L)[1]	400		1.1	3.2	5	413	1	3.2	5		404	1.1	3.2	5.0		320	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ011			PZ011			PZ011			PZ011			PZ011			PZ011			PZ011		
COLLECT DATE	3/19/2013			3/15/2012			3/10/2011			3/16/2010			3/12/2009			3/20/2008			3/16/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.8	0.25		2.1	0.25		2.5	0.25		3.9	0.1		2	0.05		2	0.1		0.46	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.8	1		3.7	1		3.1	1		5.5	1		3	1		2.4	1		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.432	0.1		0.251	0.1		0.204	0.1		<	0.1	U	0.48	0.05		2.2	0.05		0.46	0.05	
Sulfide SM 9034 (mg/L)	0.601	2	J	0.8	2	J	0.2	2	J	2.1	1		2	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	124	5	J	179	5		232	10		180	25		130	20		280	50		260	50	
Dissolved Organic Carbon SM 9060A (mg/L)	6.72	1		6.9	1		5.6	1		6	1		4.9	1		4.2	1		2.7	1	
Alkalinity SM 2320B (mg/L)	540	1.25		430	1.25		430	1		510	5		450	20		330	4		300	8	
Methane RSK-175 (µg/L)	18000	97		9700	1000		4200	500		11000	100		1100	5.1		1.4	1.7	J	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	240	10		191	1.25		191	0.4		220	2.2		200	0.22		145	0.88		130	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ011			PZ011			PZ011			PZ011			PZ011			PZ011			PZ011		
COLLECT DATE	3/16/2006			3/16/2005			3/18/2004			3/19/2003			3/25/2002			3/26/2001			3/20/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.36	0.05		2.2	0.1		1.8	0.2		4.6	0.4		4.8	0.40		5.47	1		9.31	1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	2.7	1		2.3	0.2		5	0.4		3.3	0.40		9.71	1		10.3	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.37	0.05		5.3	0.25		1.1	0.1		0.98	0.1		0.74	0.10		0.877	0.5		1.30	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	1.2	1		<	1.0	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	260	100		190	50		150	10		150	10		130	5.0		108	2.5		100	2	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		2.8	1		2.5	1		2.9	1		2.6	1.0		<	5	U	<	5	U
Alkalinity SM 2320B (mg/L)	290	8		360	8		280	5		340	5		310	5.0		333	5		336	5	
Methane RSK-175 (µg/L)	<	0.87	U	0.44	0.87	J	<	2	U	<	2	U	<	2.0	U	0.63	1	J	<	1.1	U
Carbon Dioxide SM 2320B (mg/L)[1]	130	0.88		160	0.1		123	1		150	1		140	1.0		147	5		148	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-9
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ011		
COLLECT DATE	4/2/1999		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	8.05	0.5	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	9.04	0.5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.34	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	86	5	
Dissolved Organic Carbon SM 9060A (mg/L)	13.0	5	
Alkalinity SM 2320B (mg/L)	337	5	
Methane RSK-175 (µg/L)	35.5	5	
Carbon Dioxide SM 2320B (mg/L)[1]	148	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ012					PZ012					PZ012					PZ012				
COLLECT DATE	5/23/2021					6/10/2020					6/7/2019					3/19/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	2.8		0.022	0.05	0.1	2.6		0.022	0.05	0.1	7		0.044	0.1	0.2	9		0.04	0.1	0.2
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.2		0.69	1	1	4.6		0.69	1	1	7.5		3.4	5	5	11	J	0.3	0.83	1.7
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	0.081	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	0.02	J	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	450		5.2	13	25	360		5.2	15	25	390	J	5.2	15	25	230		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	9		0.35	0.8	1	10		0.35	1	1	13		0.16	0.5	1	13		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	780		3.1	6.4	10	630		3.1	10	10	880		3.1	10	10	720		1.1	3.2	5
Methane RSK-175 (µg/L)	6300		0.63	2	5	12000		1.9	6	15	14000		1.9	6	15	22000	J	0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	347		3.1	6.4	10	280		3.1	10	10	391		3.1	10	10	320		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ012					PZ012					PZ012					PZ012			PZ012	
COLLECT DATE	3/25/2017					8/8/2016					8/10/2015					8/12/2014			3/19/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	9.7		0.11	0.25	0.5	9.9	0.11	0.25	0.5		12	0.11	0.25	0.50		3.1	0.1		2.1	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	12		0.36	1	2	12	0.36	1	2		15	0.90	2.50	5.0		2.6	1		5.6	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	U	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.050	0.10	U	0.78	0.1		2.9	0.1
Sulfide SM 9034 (mg/L)	1.2	J	0.79	1.9	4	<	0.79	1.9	4	U	1.4	0.79	1.9	4.0	J	1.4	4	J	1.4	2
Sulfate USEPA 9056A (mg/L)	230		1.2	2.5	25	130	0.23	0.5	5		160	1.2	2.5	25		95	5		56	1
Dissolved Organic Carbon SM 9060A (mg/L)	18		0.16	0.5	1	24	0.16	0.5	1		260	0.93	3.0	6.0		21.0	1		3.8	1
Alkalinity SM 2320B (mg/L)	920		1.1	3.2	5	1100	1.1	3.2	5		920	1.1	3.2	5.0		670	5		533	1.25
Methane RSK-175 (µg/L)	23000		0.44	1.6	10	22000	0.65	2.4	15		16000	0.44	1.6	10		17000	10		10000	100
Carbon Dioxide SM 2320B (mg/L)[1]	409		1.1	3.2	5	489	1.1	3.2	5		409	1.1	3.2	5.0		298	5		237	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-NATURAL ATTENUATION PARAMETERS

FIELD ID		PZ012		
COLLECT DATE		3/15/2012		
	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS				
Ammonia USEPA 350.1 (mg/L)		1.6	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		3.1	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)		4.9	0.1	
Sulfide SM 9034 (mg/L)	J	3.2	2	
Sulfate USEPA 9056A (mg/L)		143	5	
Dissolved Organic Carbon SM 9060A (mg/L)		5.2	1	
Alkalinity SM 2320B (mg/L)		400	1.25	
Methane RSK-175 (µg/L)		8700	1000	
Carbon Dioxide SM 2320B (mg/L)[1]		178	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ012			PZ012			PZ012			PZ012			PZ012			PZ012			PZ012		
COLLECT DATE	3/10/2011			3/16/2010			3/12/2009			3/20/2008			3/16/2007			3/16/2006			3/16/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.8	0.25		1	0.1		1.6	0.05		1.8	0.1		0.87	0.05		0.93	0.05		2.3	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	3.2	1		2.2	1		3.3	1		1.8	1		<	1	U	1.1	1	J	2.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.1	0.1		6.4	0.1		0.84	0.5		4.3	0.1		2.1	1		1.7	0.05		3.1	0.1	
Sulfide SM 9034 (mg/L)	0.2	2	J	9.4	1		12	1		<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	176	5		130	25		160	20		230	20		140	20		130	10		120	10	
Dissolved Organic Carbon SM 9060A (mg/L)	5.6	1		24	1		3.9	1		3.4	1		2.6	1		2.3	1		2.6	1	
Alkalinity SM 2320B (mg/L)	345	1		460	5		480	20		300	2		300	8		300	8		300	8	
Methane RSK-175 (µg/L)	4100	250		12000	100		6.1	0.31		1.4	1.7	J	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	153	0.4		200	2.2		210	0.22		132	0.88		130	0.88		130	0.88		130	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-10
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ012			PZ012			PZ012			PZ012			PZ012			PZ012		
COLLECT DATE	3/18/2004			3/19/2003			3/25/2002			3/26/2001			3/20/2000			4/2/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1.1	0.2		3.1	0.2		4.9	0.40		6.99	1		10.3	1		3.50	0.5	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.2	0.2		3.8	0.2		3.8	0.40		12.8	1		11.6	1		9.42	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.6	0.1		1.2	0.1		1.7	0.10		1.44	0.5		1.89	1		5.44	1	
Sulfide SM 9034 (mg/L)	<	1	U	1	1		0.70	1.0	J	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	83	2		110	5		55	5.0		71.5	2.5		64.8	2		74	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5	1		2.7	1		3.1	1.0		<	5	U	<	5	U	15.3	5	
Alkalinity SM 2320B (mg/L)	290	5		320	5		360	5.0		308	5		369	5		391	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	0.53	1	J	<	1	U	23.2	2	
Carbon Dioxide SM 2320B (mg/L)[1]	128	1		141	1		160	1.0		136	5		162	2.2		172	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ013					PZ013					PZ013					PZ013				
COLLECT DATE	5/22/5021					6/12/2020					6/6/2019					3/14/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.4		0.022	0.05	0.1	2.1		0.22	0.5	1	1.6		0.022	0.05	0.1	3.3		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.1		0.69	1	1	2.7		0.69	1	1	2.3		0.69	1	1	7.4		0.3	0.83	1.7
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.6		0.019	0.05	0.1	2.4		0.019	0.05	0.1	8.3		0.019	0.05	0.1	3.6		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	310		5.2	13	25	280		5.2	15	25	210	J	5.2	15	25	210		2.3	5	50
Dissolved Organic Carbon SM 9060A (mg/L)	7.4		0.35	0.8	1	9.8		0.35	1	1	7.1	J	0.16	0.5	1	12		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	890		3.1	6.4	10	780		3.1	10	10	760		3.1	10	10	1000		1.1	3.2	5
Methane RSK-175 (µg/L)	3900		0.63	2	5	6300		0.63	2	5	4000		0.63	2	5	20000		0.65	2.4	15
Carbon Dioxide SM 2320B (mg/L)[1]	396		3.1	6.4	10	347		3.1	10	10	338		3.1	10	10	444			1.1	3

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ013					PZ013					PZ013					PZ013			PZ013	
COLLECT DATE	3/25/2017					8/9/2016					8/10/2015					8/12/2014			3/19/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	2		0.022	0.05	0.1	1.3	0.022	0.05	0.1		1.4	0.022	0.050	0.10		2.1	0.1		5.31	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.2		0.18	0.5	1	3.8	0.18	0.5	1		3.1	0.18	0.50	1.0		3.3	1		17.6	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.089	J	0.019	0.05	0.1	<	0.019	0.05	0.1	U	<	0.019	0.050	0.10	U	0.07	0.1	J	0.197	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	0.96	0.79	1.9	4.0	J	5.9	4		3.41	2
Sulfate USEPA 9056A (mg/L)	280		1.2	2.5	25	170	0.23	0.5	5		220	1.2	2.50	25		250	25		191	10
Dissolved Organic Carbon SM 9060A (mg/L)	13		0.16	0.5	1	13	0.16	0.5	1		8.2	0.16	0.50	1.0		5.8	1		9.5	1
Alkalinity SM 2320B (mg/L)	1100		1.1	3.2	5	1000	1.1	3.2	5		820	1.1	3.2	5.0		630	5		500	1.25
Methane RSK-175 (µg/L)	17000		0.44	1.6	10	14000	0.22	0.8	5		15000	0.44	1.6	10		19000	10		14000	97
Carbon Dioxide SM 2320B (mg/L)[1]	489		1.1	3.2	5	444	1.1	3.2	5		364	1.1	3.2	5.0		280	5		222	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-NATURAL ATTENUATION PARAMETERS

FIELD ID		PZ013		
COLLECT DATE		3/14/2012		
	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS				
Ammonia USEPA 350.1 (mg/L)		2.1	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		7.0	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)		1.6	0.1	
Sulfide SM 9034 (mg/L)		1.4	2	J
Sulfate USEPA 9056A (mg/L)		221	10	
Dissolved Organic Carbon SM 9060A (mg/L)		7.7	1	
Alkalinity SM 2320B (mg/L)		410	1.25	
Methane RSK-175 (µg/L)		7700	1000	
Carbon Dioxide SM 2320B (mg/L)[1]		182	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ013			PZ013			PZ013			PZ013			PZ013			PZ013			PZ013		
COLLECT DATE	3/10/2011			3/17/2010			3/12/2009			3/19/2008			3/16/2007			3/16/2006			3/17/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.3	0.25		3.5	0.1		3.4	0.1		5.1	0.25		11	0.5		12	0.5		14	0.5	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.5	1		4.7	1		4.6	1		6.5	1		10	1		13	1	J	14	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.242	0.1		1.7	0.1		1.1	0.05		0.071	0.05		2.6	1		2.6	0.1		3.9	0.1	
Sulfide SM 9034 (mg/L)	0.4	2	J	6.5	1		3	1		<	1	U	5	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	104	5		160	25		150	20		18	10		76	20		74	10		77	10	
Dissolved Organic Carbon SM 9060A (mg/L)	73	1		5.8	1		4.2	1		54	2		3.2	1		2.7	1		3.3	1	
Alkalinity SM 2320B (mg/L)	485	1		500	5		470	20		340	4		340	8		350	8		390	8	
Methane RSK-175 (µg/L)	6100	500		18000	250		6000	5.1		2500	17		<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	216	0.4		220	2.2		210	0.22		150	0.88		150	0.88		150	0.88		170	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-11
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ013			PZ013			PZ013			PZ013			PZ013			PZ013		
COLLECT DATE	3/17/2004			3/24/2003			3/25/2002			3/26/2001			3/21/2000			4/2/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	12	5		12	1		8.0	1.0		10.1	1		13.6	1		16.5	2	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	11	1		11	2		8.0	0.40		15.6	1		14.5	1		16.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.7	1		6.1	0.2		8.2	0.20		4.92	0.5		4.6	1		9.45	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	120	4		140	5		340	10		165	2.5		106	2		140	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4	1		4.7	1		5.2	1.0		10.2	5		18.7	5		11.3	5	
Alkalinity SM 2320B (mg/L)	350	5		240	5		360	5.0		38	5		336	5		407	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	1.1	1		6.9	1		<	2.24	U
Carbon Dioxide SM 2320B (mg/L)[1]	154	1		106	1		160	1.0		149	5		148	2.2		179	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ014					PZ014					PZ014					PZ014				
COLLECT DATE	5/23/2021					6/12/2020					6/6/2019					3/15/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.17	0.11		0.022	0.05	0.1	0.14		0.022	0.05	0.1	0.1	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.95	J	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	1.6		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.92		0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.019	0.05	0.1	<	U	0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	1.6	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	420		5.2	13	25	480		5.2	15	25	400	J	5.2	15	25	380		1.2	2.5	25
Dissolved Organic Carbon SM 9060A (mg/L)	5.5		0.35	0.8	1	5.3		0.35	1	1	4.5	J	0.16	0.5	1	4.2		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	580		3.1	6.4	10	470		3.1	10	10	440		3.1	10	10	440		1.1	3.2	5
Methane RSK-175 (µg/L)	790		0.63	2	5	270		0.63	2	5	580		0.63	2	5	870		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	258		3.1	6.4	10	209		3.1	10	10	196		3.1	10	10	196		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ014					PZ014					PZ014					PZ014			PZ014	
COLLECT DATE	3/25/2017					8/9/2016					8/11/2015					8/12/2014			3/19/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.055	0.022	0.05	0.1	J	0.30	0.022	0.050	0.10		0.41	0.1		1.16	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	0.77	0.18	0.5	1	J	0.47	0.18	0.50	1.0	J	0.71	1	J	1.19	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.1		0.019	0.05	0.1	1.8	0.019	0.05	0.1		<	0.019	0.050	0.10	U	<	0.1	U	0.019	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U	<	2
Sulfate USEPA 9056A (mg/L)	350		1.2	2.5	25	580	1.2	2.5	25		310	1.2	2.5	25		200	5		136	10
Dissolved Organic Carbon SM 9060A (mg/L)	5.7		0.16	0.5	1	6.4	0.16	0.5	1		4.3	0.16	0.50	1.0		3.30	1		4.59	1
Alkalinity SM 2320B (mg/L)	680		1.1	3.2	5	760	1.1	3.2	5		520	1.1	3.2	5.0		510	5		530	1.25
Methane RSK-175 (µg/L)	1500		0.22	0.8	5	1300	0.22	0.8	5		1500	0.22	0.80	5.0		3500	5		3400	19
Carbon Dioxide SM 2320B (mg/L)[1]	302		1.1	3.2	5	338	1.1	3.2	5		231	1.1	3.2	5.0		227	5		236	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-NATURAL ATTENUATION PARAMETERS

FIELD ID		PZ014		
COLLECT DATE		3/14/2012		
	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS				
Ammonia USEPA 350.1 (mg/L)		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	J	<	0.1	U
Sulfide SM 9034 (mg/L)	U	0.6	2	J
Sulfate USEPA 9056A (mg/L)		150	10	
Dissolved Organic Carbon SM 9060A (mg/L)		5.3	1	
Alkalinity SM 2320B (mg/L)		550	1.25	
Methane RSK-175 (µg/L)		1900	500	
Carbon Dioxide SM 2320B (mg/L)[1]		244	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ014			PZ014			PZ014			PZ014			PZ014			PZ014			PZ014		
COLLECT DATE	3/10/2011			3/17/2010			3/12/2009			3/19/2008			3/16/2007			3/17/2006			3/17/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.071	0.1	J	0.055	0.05		0.25	0.05		<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.921	1	J	0.34	1	J	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.027	0.1	J	<	0.1	U	<	0.05	U	<	0.05	U	0.66	0.05		0.66	0.05		0.85	0.05	
Sulfide SM 9034 (mg/L)	0.4	2	J	6	1		11	1		22	1		<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	96	5		230	25		110	50		79	10		130	20		160	50		120	50	
Dissolved Organic Carbon SM 9060A (mg/L)	7.5	1		2.6	1		2.7	1		11	1		2.2	1		2	1		2.3	1	
Alkalinity SM 2320B (mg/L)	585	1		440	5		430	20		470	4		370	8		370	8		380	8	
Methane RSK-175 (µg/L)	8000	500		980	10		1000	0.31		640	17		<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	260	0.4		190	2.2		190	0.22		207	0.88		160	0.88		160	0.88		170	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-12
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ014			PZ014			PZ014			PZ014			PZ014			PZ014		
COLLECT DATE	3/17/2004			3/25/2003			3/25/2002			3/26/2001			3/21/2000			4/2/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	0.26	0.2		<	0.40	U	<	0.1	U	0.119	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.26	U	<	0.2	U	0.43	0.40		0.211	0.1		0.198	0.1		0.283	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.74	0.1		0.33	0.1		0.38	0.10		<	0.5	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	110	4		120	5		110	5.0		114	2.5		93.8	2		88	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	2	U	2	1		1.9	1.0		<	5	U	7.90	5		12.3	5	
Alkalinity SM 2320B (mg/L)	350	5		400	5		360	5.0		363	5		358	5		403	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	0.93	1	J	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	154	1		176	1		160	1.0		160	5		158	2.2		177	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ015					PZ015					PZ015					PZ015				
COLLECT DATE	5/21/2021					6/13/2020					6/4/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.67		0.022	0.05	0.1	1.2		0.022	0.05	0.1	1.1		0.022	0.05	0.1	0.97		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	3.3		0.69	1	1	0.69	J	0.69	1	1	1.5		0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	12		0.038	0.1	0.2	<	U	0.019	0.05	0.1	13	J	0.038	0.1	0.2	3.2		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	10	10	10
Sulfate USEPA 9056A (mg/L)	77		1	2.5	5	96		1	3	5	53		5.2	15	25	72		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.8		0.35	0.8	1	4.1		0.35	1	1	4.5		0.16	0.5	1	4		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	210		3.1	6.4	10	290		3.1	10	10	280		3.1	10	10	240		1.1	3.2	5
Methane RSK-175 (µg/L)	550		0.63	2	5	6100		1.9	6	15	4100		0.63	2	5	5500	J	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	93		3.1	6.4	10	129		3.1	10	10	124		3.1	10	10	107		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ015					PZ015					PZ015					PZ015			PZ015	
COLLECT DATE	3/30/2017					8/12/2016					8/13/2015					8/14/2014			3/18/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.87		0.022	0.05	0.1	0.43	0.022	0.05	0.1		0.64	0.022	0.050	0.10		1.3	0.1	J	3.32	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.6		0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.50	1.0	U	1.4	1		6.55	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.95		0.019	0.05	0.1	20	0.19	0.5	1		18	0.19	0.50	1.0		<	0.1	U	<	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4	U	<	4	U	<	2
Sulfate USEPA 9056A (mg/L)	65		0.23	0.5	5	82	0.23	0.5	5		82	0.23	0.5	5		28	5		27.50	1
Dissolved Organic Carbon SM 9060A (mg/L)	3.9		0.16	0.5	1	4.8	0.16	0.5	1		5.3	0.16	0.50	1.0		7.6	1		8.19	1
Alkalinity SM 2320B (mg/L)	250		1.1	3.2	5	180	1.1	3.2	5		210	1.1	3.2	5.0		370	5		298	1.25
Methane RSK-175 (µg/L)	7600		0.22	0.8	5	6300	0.22	0.8	5		7600	0.22	0.80	5.0		14000	5		3200	100
Carbon Dioxide SM 2320B (mg/L)[1]	111		1.1	3.2	5	80	1.1	3.2	5		93	1.1	3.2	5.0		164	5		132	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-NATURAL ATTENUATION PARAMETERS

FIELD ID		PZ015		
COLLECT DATE		3/13/2012		
	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS				
Ammonia USEPA 350.1 (mg/L)	J	3.0	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	J	6.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	UJ	0.141	0.1	
Sulfide SM 9034 (mg/L)	UJ	1	2	J
Sulfate USEPA 9056A (mg/L)	J	21	1	
Dissolved Organic Carbon SM 9060A (mg/L)	J	7.2	1	
Alkalinity SM 2320B (mg/L)		220	1.25	
Methane RSK-175 (µg/L)	J	4400	250	
Carbon Dioxide SM 2320B (mg/L)[1]	J	98	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ015			PZ015			PZ015			PZ015			PZ015			PZ015			PZ015		
COLLECT DATE	3/15/2011			3/18/2010			3/16/2009			3/18/2008			3/15/2007			3/16/2006			3/16/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	5.7	0.25		0.096	0.1	J	0.28	0.05		0.66	0.05		1	0.05		1.5	0.05		1.2	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	9.9	1		0.32	1	J	<	1	U	1.1	1		<	1	U	1.4	1	J	2.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.092	0.1	J	2.5	0.1		4	0.5		3	0.1		8.8	1		9.2	0.25		6.8	0.25	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	13	1		18	5		47	20		62	10		45	10		38	10		30	10	
Dissolved Organic Carbon SM 9060A (mg/L)	237	1		<	1	U	2.5	1		2.8	1		1.9	1		1.7	1		2.3	1	
Alkalinity SM 2320B (mg/L)	298	1		180	5		210	13		190	2		160	8		150	8		180	8	
Methane RSK-175 (µg/L)	9400	500		<	5	U	48	0.31		<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	132	0.4		77	2.2		94	0.22		84	0.88		72	0.88		66	0.88		79	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-13
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ015			PZ015			PZ015			PZ015			PZ015			PZ015		
COLLECT DATE	3/18/2004			3/18/2003			3/22/2002			3/23/2001			3/21/2000			4/2/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	1	0.2		0.91	0.2		0.48	0.20		0.247	0.1		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.8	0.2		1.4	0.2		0.72	0.20		0.383	0.1		0.160	0.1		0.207	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.8	1		5.6	0.2	J	5.9	0.50		8.17	0.5		2.05	1		3.87	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	28	2		30	5		30	5.0		27.3	5		27.0	2		28	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.3	1		2.3	1		2.5	1.0		<	5	U	9.00	5		13.8	5	
Alkalinity SM 2320B (mg/L)	180	5		180	5		180	5.0		155	5		249	5		116	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	1		79	1		79	1.0		68.2	5		110	2.2		51.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ016					PZ016					PZ016					PZ016				
COLLECT DATE	5/22/2021					6/13/2020					6/9/2019					3/22/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.21		0.022	0.05	0.1	0.14		0.022	0.05	0.1	0.36		0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	UJ	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	0.73	J	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.9		0.019	0.05	0.1	2.7		0.019	0.05	0.1	5		0.019	0.05	0.1	0.81		0.02	0.05	0.1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	24		10	10	10
Sulfate USEPA 9056A (mg/L)	91		1	2.5	5	110		1	3	5	89	J	1	3	5	74		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.9		0.35	0.8	1	2.5		0.35	1	1	2.7		0.16	0.5	1	2.8		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	350		3.1	6.4	10	320		3.1	10	10	340		3.1	10	10	300		1.1	3.2	5
Methane RSK-175 (µg/L)	190	J	0.63	2	5	710		0.63	2	5	660	J	0.63	2	5	NS				
Carbon Dioxide SM 2320B (mg/L)[1]	156		3.1	6.4	10	142		3.1	10	10	151		3.1	10	10	133		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ016					PZ016					PZ016					PZ016			PZ016	
COLLECT DATE	3/30/2017					8/12/2016					8/13/2015					8/14/2014			3/18/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.47		0.022	0.05	0.1	0.59	0.022	0.05	0.1		0.46	0.022	0.050	0.10	J	0.45	0.1		1.7	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1		0.18	0.5	1	0.91	0.18	0.5	1	J	0.63	0.18	0.50	1.0	J	0.57	1	J	5.22	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.91		0.019	0.05	0.1	0.3	0.019	0.05	0.1		<	0.019	0.050	1.0	U	<	0.1	U	0.144	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	0.8	4	J	0.401	2
Sulfate USEPA 9056A (mg/L)	80		0.23	0.5	5	110	0.23	0.5	5		81	0.23	0.50	5.0		24	5		47.8	1
Dissolved Organic Carbon SM 9060A (mg/L)	3.5		0.16	0.5	1	5.1	0.16	0.5	1		4.8	0.16	0.50	1.0		5.3	1		3.79	1
Alkalinity SM 2320B (mg/L)	310		1.1	3.2	5	280	1.1	3.2	5		270	1.1	3.2	5.0		300	5		265	1.25
Methane RSK-175 (µg/L)	2800		0.22	0.8	5	4500	0.22	0.8	5		5200	0.22	0.80	5.0		5100	5		220	4.9
Carbon Dioxide SM 2320B (mg/L)[1]	138		1.1	3.2	5	124	1.1	3.2	5		120	1.1	3.2	5.0		133	5		118	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-NATURAL ATTENUATION PARAMETERS

FIELD ID		PZ016		
COLLECT DATE		3/14/2012		
	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS				
Ammonia USEPA 350.1 (mg/L)		0.811	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)		2.3	0.1	
Sulfide SM 9034 (mg/L)	J	0.8	2	J
Sulfate USEPA 9056A (mg/L)		53	1	
Dissolved Organic Carbon SM 9060A (mg/L)		4.0	1	
Alkalinity SM 2320B (mg/L)		235	1.25	
Methane RSK-175 (µg/L)		5200	250	
Carbon Dioxide SM 2320B (mg/L)[1]		104	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ016			PZ016			PZ016			PZ016			PZ016			PZ016			PZ016		
COLLECT DATE	3/15/2011			3/18/2010			3/18/2009			3/18/2008			3/15/2007			3/16/2006			3/16/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.964	0.25		1	0.1		<	0.05	U	0.19	0.05		<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.2	1		2.4	1		<	1	U	<	1	U	<	1	UJ	<	1	UJ	1.2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.0	0.1		2.1	0.1		5.2	0.5		1.3	0.05		8.3	1		9.7	0.25		7.8	0.25	
Sulfide SM 9034 (mg/L)	0.4	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	57	1		52	25		83	20		80	10		70	10		60	10		40	10	
Dissolved Organic Carbon SM 9060A (mg/L)	4.0	1		5.5	1		2.3	1		2	1		1.7	1		1.6	1		2.1	1	
Alkalinity SM 2320B (mg/L)	245	1		250	5		220	20		170	2		190	8		180	8		190	8	
Methane RSK-175 (µg/L)	3900	250		2800	50	J	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	109	0.4		110	2.2		96	0.22		75	0.88		84	0.88		79	0.88		84	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-14
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ016			PZ016			PZ016			PZ016			PZ016			PZ016		
COLLECT DATE	3/18/2004			3/18/2003			3/22/2002			3/23/2001			3/21/2000			4/2/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	0.12	0.2	J	0.12	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.82	0.2		<	0.49	U	0.37	0.20		<	0.1	U	<	0.1	U	0.346	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.5	1		6.6	0.2	J	3.6	0.10		4.1	0.5		2.89	1		2.88	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	38	2		39	5		24	5.0		30.3	5		22.3	2		28	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.1	1		1.9	1		2.9	1.0		<	5	U	9.20	5		12.2	5	
Alkalinity SM 2320B (mg/L)	180	5		200	5		180	5.0		163	5		156	5		183	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	1		88	1		79	1.0		71.7	5		68.6	2.2		80.5	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017R-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ017R					PZ017R					PZ017R					PZ017R				
COLLECT DATE	5/26/2021					6/16/2020					6/11/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.033	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	0.02	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	24		0.48	1.3	2.5	30		0.076	0.2	0.4	52		0.19	0.5	1.0	48		0.19	0.5	1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	81		1	2.5	5	62		1	2.5	5	64		1	3	5	69		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	4.2		0.35	0.8	1	5.1		0.35	1	1	3.1		0.16	0.5	1	3.3		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	280		3.1	6.4	10	190		3.1	10	10	140		3.1	10	10	150		1.1	3.2	5
Methane RSK-175 (µg/L)	6500		0.63	2	5	1800		0.63	2	5	19		0.63	2	5	370		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	124		3.1	6.4	10	84		3.1	10	10	62		3.1	10	10	67		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017R-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ017R					PZ017R					PZ017R					PZ017R			PZ017R	
COLLECT DATE	4/1/2017					8/9/2016					8/13/2015					8/15/2014			3/13/2013	
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.031	J	0.022	0.05	0.1	0.024	0.022	0.05	0.1	J	0.037	0.022	0.050	0.10	J	0.14	0.1		0.606	0.25
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.50	1.0	U	<	1	U	<	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	49		0.19	0.5	1	36	0.19	0.5	1		19	0.19	0.50	1.0		17	0.2		18.9	0.1
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U	0.2	2
Sulfate USEPA 9056A (mg/L)	55		0.23	0.5	5	53	0.23	0.5	5		52	0.23	0.50	5.0		56	5		53	1
Dissolved Organic Carbon SM 9060A (mg/L)	3		0.16	0.5	1	2.6	0.16	0.5	1		2.4	0.16	0.50	1.0		2.7	1		2.27	1
Alkalinity SM 2320B (mg/L)	130		1.1	3.2	5	150	1.1	3.2	5		160	1.1	3.2	5.0		170	5		180	1.25
Methane RSK-175 (µg/L)	300		0.22	0.8	5	410	0.22	0.8	5		260	0.22	0.80	5.0		590	5		9.5	5
Carbon Dioxide SM 2320B (mg/L)[1]	58		1.1	3.2	5	67	1.1	3.2	5		71	1.1	3.2	5.0		76	5		80	10

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017R-NATURAL ATTENUATION PARAMETERS

FIELD ID		PZ017R		
COLLECT DATE		3/12/2012		
	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS				
Ammonia USEPA 350.1 (mg/L)		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)		22	0.1	
Sulfide SM 9034 (mg/L)	J	0.4	2	J
Sulfate USEPA 9056A (mg/L)		43	1	
Dissolved Organic Carbon SM 9060A (mg/L)		<	1	U
Alkalinity SM 2320B (mg/L)		100	1.25	
Methane RSK-175 (µg/L)		<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]		44	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017R-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ017R			PZ017R			PZ017			PZ017			PZ017			PZ017			PZ017		
COLLECT DATE	3/14/2011			3/16/2010			None			3/12/2008			3/12/2007			3/14/2006			3/15/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.194	0.25	J	0.17	0.1					1.5	0.05		1.6	0.05		<	0.05	U	2.4	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	**Not Sampled**			<	1	U	1.7	1		1.3	1		2.1	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	23	0.1		59	1		**in 2009**			9.6	0.5		11	1	J	10	0.25		10	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	1	U				<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	46	1		36	5					77	10		64	10		47	10		42	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.8	1		2.3	1					2.8	1		2.1	1		2.2	1		5.1	1	J
Alkalinity SM 2320B (mg/L)	145	1		100	5					210	2		220	8		230	8		240	8	
Methane RSK-175 (µg/L)	<	5	UJ	0.26	5	J				<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	64	0.4		44	2.2					92	0.88		99	0.88		100	0.88		110	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-15
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017R-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ017			PZ017			PZ017			PZ017		
COLLECT DATE	3/16/2004			3/19/2003			3/19/2002			3/22/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	1.6	0.2		1.8	0.2	J	0.65	0.20		0.6	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.6	0.2		2	0.2		0.77	0.40		1.1	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.2	1		9.6	0.5	J	6.7	0.20		7.1	0.5	
Sulfide SM 9034 (mg/L)	<	1	U	1.1	1		<	1.0	U	<	1	U
Sulfate USEPA 9056A (mg/L)	37	2		41	5		31	5.0		33.7	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5	1		2.1	1		3.9	1.0		<	1	U
Alkalinity SM 2320B (mg/L)	220	5		190	5	J	230	5.0		208	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	9.3	1	
Carbon Dioxide SM 2320B (mg/L)[1]	97	0.5		84	1		100	1.0		91.5	5.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ018					PZ018					PZ018					PZ018				
COLLECT DATE	5/25/2021					6/16/2020					6/11/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.32	J	0.11	0.25	0.5	<	U	0.022	0.05	0.1	0.32		0.022	0.05	0.1	0.09	J	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.4		0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	5		0.019	0.05	0.1	26		0.095	0.25	0.5	<	U	0.019	0.05	0.1	25		0.1	0.25	0.5
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	53		1	2.5	5	67		1	2.5	5	110		1	3	5	93		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	11		0.35	0.8	1	4		0.35	1	1	2.8		0.16	0.5	1	3.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	360		3.1	6.4	10	96		3.1	10	10	240		3.1	10	10	200		1.1	3.2	5
Methane RSK-175 (µg/L)	7900		0.63	2	5	<	U	0.63	2	5	510	J	0.63	2	5	1100		0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	160		3.1	6.4	10	43		3.1	10	10	107		3.1	10	10	89		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ018					PZ018					PZ018					PZ018		
COLLECT DATE	3/30/2017					8/9/2016					8/12/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.025	J	0.022	0.05	0.1	<	0.022	0.05	0.1	U	0.023	0.022	0.050	0.10	J	0.025	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.50	1.0	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	21		0.095	0.25	0.5	27	0.19	0.5	1		25	0.19	0.50	1.0		10	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	76		0.23	0.5	5	64	0.23	0.5	5		62	0.23	0.50	5.0		66	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3		0.16	0.5	1	3.3	0.16	0.5	1		2.3	0.16	0.50	1.0		2.3	1	
Alkalinity SM 2320B (mg/L)	220		1.1	3.2	5	210	1.1	3.2	5		170	1.1	3.2	5.0		200	5	
Methane RSK-175 (µg/L)	1800		0.22	0.8	5	2100	0.22	0.8	5		910	0.22	0.80	5.0		<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	98		1.1	3.2	5	93	1.1	3.2	5		76	1.1	3.2	5.0		89	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ018			PZ018			PZ018			PZ018			PZ018			PZ018			PZ018		
COLLECT DATE	3/13/2013			3/12/2012			3/14/2011			3/16/2010			3/17/2009			3/11/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.612	0.25		<	0.25	UJ	<	0.25	UJ	0.15	0.1		0.67	0.05		1.1	0.05		0.68	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	UJ	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.04	0.1		9.3	0.1		12	0.1		18	0.5		14	0.5		9.8	0.5		11	1	J
Sulfide SM 9034 (mg/L)	0.2	2	J	0.6	2	J	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	63	1		69	1	J	71	1		51	25		53	20		48	10		45	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.23	1		2.3	1		2.4	1		2	1		2.5	1		2.5	1		1.8	1	
Alkalinity SM 2320B (mg/L)	200	1.25		172	1.25		195	1		170	5		210	20		190	2		220	8	
Methane RSK-175 (µg/L)	62	5		<	5	U	<	5	UJ	<	5	U	0.27	0.31	J	<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	89	10		76	1.25		87	0.4		77	2.2		92	0.22		84	0.88		99	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-16
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ018			PZ018			PZ018			PZ018			PZ018			PZ018		
COLLECT DATE	3/14/2006			3/15/2005			3/15/2004			3/19/2003			3/19/2002			3/22/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	0.84	0.05		1.3	0.05		1.1	0.2		1	0.2		1.2	0.40		1.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.2	1		1.8	0.2		1.2	0.2		1.3	0.40		1.7	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.7	0.25		8.7	0.25		8.2	1		7.5	0.5	J	6.9	0.20		6.3	0.5	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	1.3	1		<	1.0	U	<	1	U
Sulfate USEPA 9056A (mg/L)	43	10		35	10		35	2		32	5		33	5.0		36.3	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.1	1		2.3	1		2.2	1		2.4	1		2.7	1.0		<	1	U
Alkalinity SM 2320B (mg/L)	220	8		220	8		220	5		180	5		200	5.0		193	5	
Methane RSK-175 (µg/L)	<	0.87	U	0.47	0.87	J	<	2	U	2.9	2		<	2.0	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	97	0.88		97	0.1		97	0.4		79	1		88	1.0		84.9	5.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ019					PZ019					PZ019					PZ019				
COLLECT DATE	5/24/2021					6/16/2020					6/10/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.022	0.05	1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	UJ	0.69	1	1	<	UJ	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	4
Nitrate/Nitrite USEPA 353.2 (mg/L)	36	J	0.19	0.5	1	34	J	0.095	0.25	0.5	40		0.19	0.5	1.0	43		0.19	0.5	1
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	5
Sulfate USEPA 9056A (mg/L)	79		1	2.5	5	58		1	3	5	63		1	3	5	61		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	2		0.35	0.8	1	2		0.35	1	1	2		0.16	0.5	1	2.1		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	130		3.1	6.4	10	75		3.1	10	10	83		3.1	10	10	61		1.1	3.2	0
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	58		3.1	6.4	10	33		3.1	10	10	37		3.1	10	10	27		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ019					PZ019					PZ019					PZ019		
COLLECT DATE	3/28/2017					8/10/2016					8/11/2015					8/15/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.050	0.10	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.50	1.0	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	48		0.38	1	2	74	0.19	0.5	1		93	0.95	2.5	5.0		30	0.5	
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	1.3	4	J
Sulfate USEPA 9056A (mg/L)	53		0.23	0.5	5	46	0.23	0.5	5		29	0.23	0.50	5.0		48.0	5	J
Dissolved Organic Carbon SM 9060A (mg/L)	2.5		0.16	0.5	1	2.2	0.16	0.5	1		1.7	0.16	0.50	1.0		1.90	1	
Alkalinity SM 2320B (mg/L)	64		1.1	3.2	5	43	1.1	3.2	5		51	1.1	3.2	5.0		98	5	
Methane RSK-175 (µg/L)	<	U	0.22	0.8	5	<	0.22	0.8	5	U	<	0.22	0.80	5.0	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	28		1.1	3.2	5	19	1.1	3.2	5		23	1.1	3.2	5.0		44	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ019			PZ019			PZ019			PZ019			PZ019			PZ019			PZ019		
COLLECT DATE	3/13/2013			3/7/2012			3/14/2011			3/11/2010			3/19/2009			3/11/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.55	0.25		<	0.25	U	<	0.25	UJ	0.071	0.1	J	<	0.05	U	0.33	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	26	0.1		19	0.1		19	0.1		25	0.5		29	1		31	1		15	1	J
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	35.2	1		33	1		39	1		29	5		32	2		27	10		45	10	
Dissolved Organic Carbon SM 9060A (mg/L)	1.84	1		<	1	U	1.8	1		1.3	1		2.2	1		2.7	1		1.5	1	
Alkalinity SM 2320B (mg/L)	120	1.25		80	1.25		75	1		79	5		110	20		96	2		100	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	53	10		36	1.25		33	0.4		35	2.2		48	0.22		42	0.88		44	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-17
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ019			PZ019			PZ019			PZ019			PZ019			PZ019		
COLLECT DATE	3/15/2006			3/15/2005			3/15/2004			3/17/2003			3/20/2002			3/22/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	0.17	0.40	J	1.1	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	0.51	0.2		0.54	0.2		0.40	0.40		0.1	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.8	0.25		4.6	0.25		4.7	1		4.8	0.2		5.3	0.50		4.3	0.5	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U	<	1	U
Sulfate USEPA 9056A (mg/L)	39	10		30	10		26	2		25	5		26	1.0		26	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.3	1		1.6	1		<	1.4	U	<	1.6	U	2.3	1.0		<	1	U
Alkalinity SM 2320B (mg/L)	110	8		130	8		120	5		110	5		120	5.0		123	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	48	0.88		57	0.1		53	0.7		48	1		53	1.0		54.1	5.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ020					PZ020					PZ020					PZ020				
COLLECT DATE	5/26/2021					6/15/2020					6/10/2019					3/20/2018				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	0.032	J	0.022	0.05	0.1	<	U	0.022	0.05	0.1	<	U	0.02	0.05	0.1
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.69	1	1	<	U	0.18	0.5	1
Nitrate/Nitrite USEPA 353.2 (mg/L)	13		0.095	0.25	0.5	38		0.38	1	2	42		0.19	0.5	1.0	29		0.1	0.25	0.5
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4	<	U	0.79	1.9	4
Sulfate USEPA 9056A (mg/L)	150		1	2.5	5	190		1	3	5	170		1	3	5	150		0.23	0.5	5
Dissolved Organic Carbon SM 9060A (mg/L)	3.5		0.35	0.8	1	6.4		0.35	1	1	4.5		0.16	0.5	1	3.5		0.16	0.5	1
Alkalinity SM 2320B (mg/L)	320		3.1	6.4	10	310		3.1	10	10	290		3.1	10	10	310		1.1	3.2	5
Methane RSK-175 (µg/L)	0.79	J	0.63	2	5	<	U	0.63	2	5	<	U	0.63	2	5	<	U	0.22	0.8	5
Carbon Dioxide SM 2320B (mg/L)[1]	142		3.1	6.4	10	138		3.1	10	10	129		3.1	10	10	138		1.1	3.2	5

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ020					PZ020					PZ020					PZ020		
COLLECT DATE	3/31/2017					8/12/2016					8/17/2015					8/8/2014		
	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	0.022	0.05	0.1	U	<	0.022	0.050	0.10	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.18	0.5	1	<	0.18	0.5	1	U	<	0.18	0.50	1.0	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	28		0.095	0.25	0.5	35	0.38	1	2		18	0.19	0.50	1.0		12	0.2	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	0.79	1.9	4	U	<	0.79	1.9	4.0	U	<	4	U
Sulfate USEPA 9056A (mg/L)	130		0.23	0.5	5	150	0.23	0.5	5		100	0.23	0.50	5.0		88	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4		0.16	0.5	1	4.8	0.16	0.5	1		3.5	0.16	0.50	1.0		3.4	1	
Alkalinity SM 2320B (mg/L)	300		1.1	3.2	5	310	1.1	3.2	5		290	1.1	3.2	5.0		310	5	
Methane RSK-175 (µg/L)	1.3	J	0.22	0.8	5	0.52	0.22	0.8	5	J	4.6	0.22	0.80	5.0	J	4.1	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	133		1.1	3.2	5	138	1.1	3.2	5		129	1.1	3.2	5.0		138	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ020			PZ020			PZ020			PZ020			PZ020			PZ020			PZ020		
COLLECT DATE	3/13/2013			3/12/2012			3/15/2011			3/16/2010			3/13/2009			3/13/2008			3/12/2007		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.3	0.25		<	0.25	U	<	0.25	UJ	<	0.1	U	<	0.05	U	0.21	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	20.8	0.1		17	0.1		23	0.1		22	0.5		1.4	1		24	0.5		22	1	J
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	0.2	2	J	4.3	1		<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	82	5		80	1		79	5		85	25		78	50		72	10	J	64	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.37	1		<	1	U	4.8	1		3.8	1		4.5	1		4	1		2.6	1	
Alkalinity SM 2320B (mg/L)	355	1.25		500	1.25		325	1		350	5		320	20		250	4		230	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	UJ	<	5	U	0.25	0.31	J	<	1.7	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	158	10		222	10		144	0.4		150	2.2		140	0.22		110	1.8		100	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.2-18
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020-NATURAL ATTENUATION PARAMETERS

FIELD ID	PZ020			PZ020			PZ020			PZ020			PZ020			PZ020		
COLLECT DATE	3/14/2006			3/15/2005			3/16/2004			3/18/2003			3/20/2002			3/22/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																		
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.2	U	0.15	0.2	J	<	0.20	U	0.2	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	0.56	U	<	0.37	U	0.57	0.40		0.2	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.5	0.5		9	0.5		12	1		13	0.5	J	16	0.50		16.6	0.5	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U	<	1	U
Sulfate USEPA 9056A (mg/L)	64	10		52	10		45	2		41	5		46	1.0		48.2	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		2.4	1		2.5	1		2.9	1		4.5	1.0		<	1	U
Alkalinity SM 2320B (mg/L)	220	8		230	8		220	5		290	5		300	5.0		285	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	97	0.88		100	0.1		97	0.3		128	1		130	1.0		125.0	5.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

E.2 Natural Attenuation Parameters

E.2.3 OU1 OFF-POST CA WELLS

WELL	TABLE
CA210	E.2.3-1
CA211	E.2.3-2
CA212	E.2.3-3
CA213	E.2.3-4
CA220	E.2.3-5
CA221	E.2.3-6
CA222	E.2.3-7
CA230	E.2.3-8
CA231	E.2.3-9
CA232	E.2.3-10
CA240	E.2.3-11
CA241	E.2.3-12
CA242	E.2.3-13
CA250	E.2.3-14
CA251	E.2.3-15
CA252	E.2.3-16
CA253	E.2.3-17
CA260	E.2.3-18
CA261	E.2.3-19
CA262	E.2.3-20
CA270	E.2.3-21
CA271	E.2.3-22
CA272	E.2.3-23
CA273	E.2.3-24
CA280	E.2.3-25
CA281	E.2.3-26
CA282	E.2.3-27
CA290/CA290R	E.2.3-28
CA291/CA291R	E.2.3-29
CA292/CA292R	E.2.3-30
CA310	E.2.3-31
CA311	E.2.3-32
CA312	E.2.3-33
CA313	E.2.3-34
CA322	E.2.3-35
CA330	E.2.3-36
CA331	E.2.3-37
CA332	E.2.3-38
CA342	E.2.3-39
CA343	E.2.3-40

TABLE E.2.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA210					CA210					CA210			CA210			CA210		
COLLECT DATE	5/19/2021					6/9/2020					None			None			3/9/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	0.14		0.022	0.05	0.1	0.052	J	0.022	0.05	0.1							<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	0.72	J	0.69	1	1	**Not Sampled**			**No 2013 Sample**			<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	41		0.19	0.5	1	19		0.095	0.25	0.5	**in 2014, 2015, 2016,**			**Well Dry**			22	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**						0.8	2	J
Sulfate USEPA 9056A (mg/L)	190		1	2.5	5	150		1	3	5							144	10	
Dissolved Organic Carbon SM 9060A (mg/L)	9.5		0.35	0.8	1	14		0.35	1	1							12	1	
Alkalinity SM 2320B (mg/L)	390		3.1	6.4	10	340		3.1	10	10							310	1.25	
Methane RSK-175 (µg/L)	2.7		0.63	2	5	2.3	J	0.63	2	5							5.5	5	
Carbon Dioxide SM 2320B (mg/L)[1]	173		3.1	6.4	10	151		3.1	10	10							138	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA210			CA210			CA210			CA210			CA210			CA210			CA210		
COLLECT DATE	3/4/2011			3/11/2010			3/5/2009			3/7/2008			None			None			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.745	0.25		0.13	0.1		<	0.05	U	0.22	0.05										
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.7	1		<	1	U	<	1	U	1.3	1		**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	19	0.1		25	0.5		25	0.5		14	0.5		**Well Dry**			**Well Dry**			**Well Dry**		
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U									
Sulfate USEPA 9056A (mg/L)	107	5		110	25		97	20		80	10										
Dissolved Organic Carbon SM 9060A (mg/L)	15	1		8.9	1		8.8	1		15	1										
Alkalinity SM 2320B (mg/L)	318	1		320	5		280	8		240	2										
Methane RSK-175 (µg/L)	4.9	5	J	3.8	5	J	4.1	0.31		1.3	1.7	J									
Carbon Dioxide SM 2320B (mg/L)[1]	141	0.4		140	2.2		120	0.22		106	0.88										

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA210			CA210			CA210			CA210			CA210			CA210			CA210		
COLLECT DATE	None			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.33	0.20		0.46	0.40		<	0.1	U	<	0.1	U	<	0.1	U	0.024	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2004 Sample**			5.8	0.4		1.0	0.40		0.110	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			62	3	J	64	2.5		73.2	2.5		47.6	2		60.4	4		67.0	4	
Sulfide SM 9034 (mg/L)				<	1.0	U	1.0	1.0		<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				110	5		93	5.0		103	5		72.2	2		107	2		116	2	
Dissolved Organic Carbon SM 9060A (mg/L)				9	1		10	1.0		5.40	5		15.2	5		9.90	5		13.9	5	
Alkalinity SM 2320B (mg/L)				180	5		180	5.0		178	5		231	5		214	5		160	5	
Methane RSK-175 (µg/L)				<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	UJ	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				79	1		79	1.0		78.3	5		102	2.2		94.2	2.2		70.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA211					CA211					CA211			CA211			CA211		
COLLECT DATE	5/19/2021					6/9/2020					None			3/7/2013			3/1/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1				0.313	0.25	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	**Not Sampled**			<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	32		0.095	0.25	0.5	33		0.19	0.5	1	**in 2014, 2015, 2016,**			32.7	0.1		37	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	0.8	J	0.79	1.9	4	**2017, 2018, 2019**			0.2	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)	89		1	2.5	5	110		1	3	5				109	5		107	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.7		0.35	0.8	1	6		0.35	1	1				6.56	1		5.5	1	
Alkalinity SM 2320B (mg/L)	180		3.1	6.4	10	210		3.1	10	10				240	1.25		219	1.25	
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5				<	5	U	<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]	80		3.1	6.4	10	93		3.1	10	10				107	10		97	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA211			CA211			CA211			CA211			CA211			CA211			CA211		
COLLECT DATE	3/4/2011			3/11/2010			3/5/2009			3/7/2008			3/9/2007			3/10/2006			3/10/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.059	0.1	J	0.15	0.05		0.52	0.05		0.47	0.05		0.46	0.05		0.63	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	UJ	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	42	0.1		37	0.5		29	1		33	1		31	1		30	2.5		22	2.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	1	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	116	5		100	25		77	20		100	10		83	20		96	20		94	10	
Dissolved Organic Carbon SM 9060A (mg/L)	7.2	1		5.2	1		4.7	1		6.7	1		5	1		6.3	1		6.2	1	
Alkalinity SM 2320B (mg/L)	262	1		200	5		210	8		190	2		200	8		200	8		180	8	
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	116	0.4		88	2.2		92	0.22		84	0.88		86	0.88		88	0.88		79	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA211			CA211			CA211			CA211			CA211			CA211			CA211		
COLLECT DATE	3/12/2004			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.56	0.2		0.23	0.2		1.2	0.40		<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.2	0.2		<	0.20	U	0.59	0.40		0.122	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	52	1	J	44	2	J	25	1.0		37.1	1		37.6	2		31.4	2		30.5	2	
Sulfide SM 9034 (mg/L)	<	1	U	2.50	1.00		0.90	1.0	J	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	87	4		83	5		63	2.0		71	5		63.7	2		69.2	2		58.5	2	
Dissolved Organic Carbon SM 9060A (mg/L)	6.6	1		5.3	1.0		4.4	1.0		<	5	U	<	5	U	8.30	5		7.9	5	
Alkalinity SM 2320B (mg/L)	170	5		180	5		170	5.0		175	5		188	5		198	5		187	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	UJ	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	75	0.7		79	1		75	1.0		77.0	5		82.7	2.2		87.1	2.2		82.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA212					CA212					CA212			CA212			CA212		
COLLECT DATE	5/19/2021					6/9/2020					None			3/7/2013			3/1/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1				<	0.25	U	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	**Not Sampled**			0.059	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	14		0.038	0.1	0.2	18		0.095	0.25	0.5	**in 2014, 2015, 2016,**			17.3	0.1		32	0.1	
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			0.2	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)	68		1	2.5	5	79		1	3	5				96	5		88	2	
Dissolved Organic Carbon SM 9060A (mg/L)	2.4		0.35	0.8	1	3.1		0.35	1	1				5.05	1		3.2	1	
Alkalinity SM 2320B (mg/L)	170		3.1	6.4	10	170		3.1	10	10				210	1.25		246	1.25	
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5				<	5	U	<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]	76		3.1	6.4	10	76		3.1	10	10				93	10		109	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA212			CA212			CA212			CA212			CA212			CA212			CA212		
COLLECT DATE	3/4/2011			3/11/2010			3/5/2009			3/7/2008			3/9/2007			3/10/2006			3/10/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.075	0.1	J	0.1	0.05		0.5	0.05		0.2	0.05		0.31	0.05		0.23	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	23	0.1		12	0.2		11	0.25		10	0.5		7.7	1		4.8	0.25		1.6	0.25	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	74	2		64	25		57	20		60	10		56	10		50	20		51	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.4	1		2	1		2.8	1		3.5	1		2.1	1		2	1		2.1	1	
Alkalinity SM 2320B (mg/L)	188	1		200	5		230	8		200	2		220	8		200	8		210	8	
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.4		86	2.2		100	0.22		88	0.88		95	0.88		90	0.88		92	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA212			CA212			CA212			CA212			CA212			CA212			CA212		
COLLECT DATE	3/12/2004			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.35	0.2		0.21	0.2		<	0.40	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.3	0.2		0.5	0.2		0.41	0.40		<	0.1	U	0.161	0.1	J	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	8	1	J	8.9	0.5	J	8.6	1.0		12.5	0.5		13.3	1		8.85	2		13.0	1	
Sulfide SM 9034 (mg/L)	<	1	U	2.2	1		<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	52	2		58	5		61	2.0		56.9	5		56.4	2		62	2		64.6	2	
Dissolved Organic Carbon SM 9060A (mg/L)	2.4	1		2.2	1.0		2.8	1.0		<	5	U	<	5	U	8.00	5		8.1	5	
Alkalinity SM 2320B (mg/L)	190	5		210	5		210	5.0		185	5		206	5		222	5		238	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.2		92	1		92	1.0		81.4	5		90.6	2.2		97.7	2.2		105	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA213					CA213					CA213			CA213			CA213		
COLLECT DATE	5/19/2021					6/10/2020					None			3/7/2013			3/1/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1				0.898	0.25		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	**Not Sampled**			0.302	1	J	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.5		0.019	0.05	0.1	1		0.019	0.05	0.1	**in 2014, 2015, 2016,**			1.93	0.1		0.78	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			<	2	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)	60		1	2.5	5	57		1	3	5				54.4	1		53	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2		0.35	0.8	1	1.7		0.35	1	1				2.56	1		<	1	U
Alkalinity SM 2320B (mg/L)	130		3.1	6.4	10	120		3.1	10	10				136	1.25		146	1.25	
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5				<	5	U	0.65	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	58		3.1	6.4	10	53		3.1	10	10				60	10		65	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA213			CA213			CA213			CA213			CA213			CA213			CA213		
COLLECT DATE	3/4/2011			3/11/2010			3/5/2009			3/7/2008			3/9/2007			3/10/2006			3/10/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.052	0.1	J	<	0.05	U	0.21	0.05		<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.999	0.1		0.9	0.1		0.89	0.05		1.1	0.05		2	1		0.46	0.05		0.65	0.05	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	54	1		49	25		47	20		57	10		48	10		52	20		46	10	
Dissolved Organic Carbon SM 9060A (mg/L)	1.9	1		1.1	1		2	1		2	1		1.5	1		1.5	1		1.8	1	
Alkalinity SM 2320B (mg/L)	125	1		140	5		140	8		120	2		130	8		140	8		130	8	
Methane RSK-175 (µg/L)	<	5	UJ	2.2	5	J	1.1	0.31		<	1.7	U	1.5	0.87		1	0.87		0.56	0.87	J
Carbon Dioxide SM 2320B (mg/L)[1]	56	0.4		60	2.2		63	0.22		53	0.88		56	0.88		60	0.88		57	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA213-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA213			CA213			CA213			CA213			CA213			CA213			CA213		
COLLECT DATE	3/12/2004			3/14/2003			3/19/2002			3/19/2001			3/10/2000			3/24/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.2	U	<	0.2	U	0.58	0.40		<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.27	U	0.18	0.2	J	0.34	0.40	J	<	0.1	U	0.557	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.63	0.1	J	0.28	0.1		0.25	0.10		<	0.5	U	<	1	U	<	1	U	<	0.2	U
Sulfide SM 9034 (mg/L)	<	1	U	1.5	1		<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	49	2		46	5		48	1.0		49.1	5		48.7	2		46.9	2		38.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.6	1		<	1.3	U	2.1	1.0		<	5	U	<	5	U	9.90	5		3.9	5	J
Alkalinity SM 2320B (mg/L)	120	5		150	5		150	5.0		150	5		156	5		157	5		148	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1.9	U	<	1.1	U	2.98	1		2.45	1	
Carbon Dioxide SM 2320B (mg/L)[1]	53	0.1		66	1		66	1.0		66.0	5		68.6	2.2		69.1	2.2		65.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA220-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA220			CA220			CA220			CA220			CA220			CA220			CA220		
COLLECT DATE	None			None			None			None			None			None			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)																			0.46	0.40	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			**No 2003 Sample**			0.39	0.40	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			6.8	0.50	
Sulfide SM 9034 (mg/L)																			0.70	1.0	J
Sulfate USEPA 9056A (mg/L)																			11	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)																			1.8	1.0	
Alkalinity SM 2320B (mg/L)																			160	5.0	
Methane RSK-175 (µg/L)																			<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]																			70	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA220-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA220			CA220			CA220			CA220		
COLLECT DATE	3/20/2001			3/10/2000			3/23/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.026	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.482	0.1		<	0.1	U	<	0.1	U	0.036	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.35	0.5		7.45	1		6.89	1		7.76	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	15	5		11.8	2		18.8	5		8.25	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	12.0	5		6.5	5	
Alkalinity SM 2320B (mg/L)	173	5		208	5		472	5		384	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	2.91	1		3.6	1	
Carbon Dioxide SM 2320B (mg/L)[1]	76.1	5		91.5	2.2		208	2.2		169	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA221-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA221			CA221			CA221			CA221			CA221			CA221			CA221		
COLLECT DATE	None			None			3/13/2006			3/14/2005			3/11/2004			3/14/2003			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.22	0.05		<	0.05	U	0.24	0.2		<	0.2	U	<	0.40	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.3	1		1.2	1		<	0.46	U	0.24	0.2		0.58	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**			**in 2007**			0.18	0.05		1.4	1		3.1	0.1		3.3	0.1		4.0	0.50	
Sulfide SM 9034 (mg/L)							<	1	U	<	1	U	0.7	1	J	2.00	1.00		0.50	1.0	J
Sulfate USEPA 9056A (mg/L)							47	10		40	10		39	2		37	5		40	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)							1.8	1		1.9	1		2	1		1.9	1.0		2.7	1.0	
Alkalinity SM 2320B (mg/L)							210	8		200	8		180	5		170	5		200	5.0	
Methane RSK-175 (µg/L)							10	0.87		21	0.87		<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]							92	0.88		88	0.1		79	0.3		75	1		88	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA221-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA221			CA221			CA221			CA221		
COLLECT DATE	3/20/2001			3/10/2000			3/23/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.131	0.1		0.268	0.1		<	0.1	U	0.20	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.18	0.5		1.98	1	<	2.36	1		1.46	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	38	5		32.7	2		39.8	5		31.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	5.50	5		<	5	U	16.3	5		6.2	5	
Alkalinity SM 2320B (mg/L)	176	5		183	5		184	5		176	5	
Methane RSK-175 (µg/L)	41	2		24	1		46.2	5		45.5	2	
Carbon Dioxide SM 2320B (mg/L)[1]	77.4	5		80.5	2.2		81.0	2.2		77.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA222-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA222			CA222			CA222			CA222			CA222			CA222			CA222		
COLLECT DATE	None			None			3/13/2006			3/14/2005			3/11/2004			3/14/2003			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.088	0.05		<	0.05	U	0.15	0.2	J	<	0.2	U	<	0.40	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	U	1.2	1		<	0.21	U	0.19	0.2	J	0.53	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**			**in 2007**			<	0.05	U	<	0.05	U	0.088	0.1	J	<	0.1	U	0.09	0.10	J
Sulfide SM 9034 (mg/L)							<	1	U	<	1	U	0.7	1	J	1.80	1.00		0.50	1.0	
Sulfate USEPA 9056A (mg/L)							69	10		63	10		61	2		55	5		50	5.0	
Dissolved Organic Carbon SM 9060A (mg/L)							1.6	1		1.9	1		1.8	1		<	1.7	U	2.5	1.0	
Alkalinity SM 2320B (mg/L)							260	8		260	8		240	5		220	5		240	5.0	
Methane RSK-175 (µg/L)							35	0.87		67	0.87		52	2		81	2		29	2.0	
Carbon Dioxide SM 2320B (mg/L)[1]							110	0.88		110	0.1		106	0.2		97	1		110	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA222-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA222			CA222			CA222			CA222		
COLLECT DATE	3/20/2001			3/10/2000			3/23/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.163	0.1		0.658	0.1		<	0.1	U	0.036	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.54	0.5		1	U		<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	48.7	5		46.6	2		53.7	5		49.7	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	11.0	5		7.2	5	
Alkalinity SM 2320B (mg/L)	198	5		211	5		221	5		214	5	
Methane RSK-175 (µg/L)	53	5		82	5		95	10		87.5	4	
Carbon Dioxide SM 2320B (mg/L)[1]	87.1	5		92.8	2.2		97.2	2.2		94.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA230-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA230			CA230			CA230			CA230			CA230			CA230			CA230		
COLLECT DATE	None			None			None			3/13/2003			3/15/2002			3/19/2001			3/9/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)										<	0.2	U	0.18	0.20	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No 2005 Sample**			**No 2004 Sample**			0.79	0.2		2.2	0.44		<	0.1	U	0.155	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			**Well Dry**			**Well Dry**			21	0.5		18	1.0		20.3	0.5		12.2	1	
Sulfide SM 9034 (mg/L)										2	1		<	1.0	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)										68	25		51	2.0		39.2	5		31.6	2	
Dissolved Organic Carbon SM 9060A (mg/L)										4.4	1.0		5.5	1.0		7.40	5		6.40	5	
Alkalinity SM 2320B (mg/L)										82	5		90	5.0		73.6	5		91.0	5	
Methane RSK-175 (µg/L)										<	2	U	<	2.0	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]										36	1		40	1.0		32.4	5		40.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA230-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA230			CA230		
COLLECT DATE	3/19/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.053	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	24.1	1		21.9	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	41.2	5		61.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	15.1	5		13.8	5	
Alkalinity SM 2320B (mg/L)	65	5		97.4	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	28.6	2.2		42.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA231-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA231			CA231			CA231			CA231			CA231			CA231			CA231		
COLLECT DATE	None			3/10/2005			3/12/2004			3/13/2003			3/15/2002			3/19/2001			3/9/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	0.13	0.2	J	<	0.20	U	0.20	0.20		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	1.9	0.2		0.51	0.2		0.51	0.45		0.158	0.1		0.107	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			15	0.5		22	1	J	24	1	J	5.9	1.0		19.3	0.5		19.3	1	
Sulfide SM 9034 (mg/L)				<	1	U	0.6	1	J	1.60	1.00		0.50	1.0	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				35	10		40	2	J	37	5		14	2.0		33.6	5		33.0	2	
Dissolved Organic Carbon SM 9060A (mg/L)				4.1	1		3.7	1		3.2	1.0		3.3	1.0		7.30	5		5.60	5	
Alkalinity SM 2320B (mg/L)				72	8		68	5		67	5		78	5.0		71.1	5		73.3	5	
Methane RSK-175 (µg/L)				<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				32	0.1		30	0.7		29	1		34	1.0		31.3	5		32.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA231-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA231			CA231		
COLLECT DATE	3/19/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.053	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	23.3	1		26.1	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	46	5		36.3	1	
Dissolved Organic Carbon SM 9060A (mg/L)	18.5	5		12.0	5	
Alkalinity SM 2320B (mg/L)	82	5		85.5	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	36.1	2.2		37.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA232-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA232			CA232			CA232			CA232			CA232			CA232			CA232		
COLLECT DATE	None			3/10/2005			3/12/2004			3/13/2003			3/15/2002			3/19/2001			3/9/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	0.11	0.2	J	0.12	0.20	J	0.08	0.20	J	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	1.3	0.2		0.47	0.2		0.54	0.50		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			6.1	0.25		7.9	1	J	7.5	0.5	J	8.7	1.0		10.2	0.5		9.13	1	
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	1.40	1.00		0.70	1.0	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				33	10		34	2		34	5		42	2.0		37.7	5		36.2	2	
Dissolved Organic Carbon SM 9060A (mg/L)				1.3	1		<	1.4	U	<	1.2	U	1.8	1.0		<	5	U	5.40	5	
Alkalinity SM 2320B (mg/L)				100	8		99	5		130	5		110	5.0		107	5		116	5	
Methane RSK-175 (µg/L)				<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	0.29	1	J
Carbon Dioxide SM 2320B (mg/L)[1]				44	0.1		44	0.4		57	1		48	1.0		47.1	5		51.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA232-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA232			CA232		
COLLECT DATE	3/19/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.27	1		8.59	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	37.3	5		30.0	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)	25.4	5		10.9	5	
Alkalinity SM 2320B (mg/L)	117	5		114	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	51.5	2.2		50.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA240			CA240			CA240			CA240			CA240			CA240			CA240		
COLLECT DATE	None			None			None			2/29/2012			3/3/2011			3/12/2010			3/5/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)										0.093	0.25	J	<	0.25	UJ	0.038	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			**No 2013 Sample**			<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			**Well Dry**			67	0.1		78	0.1		69	1		58	2.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**						0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)										79	1		76	1		77	25		73	20	
Dissolved Organic Carbon SM 9060A (mg/L)										1.6	1		2.2	1		1.3	1		2.6	1	
Alkalinity SM 2320B (mg/L)										22	1.25		28	1		27	5		25	2	
Methane RSK-175 (µg/L)										<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]										10	1.25		12	0.4		12	2.2		11	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA240			CA240			CA240			CA240			CA240			CA240			CA240		
COLLECT DATE	3/6/2008			None			None			None			None			None			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U																<	0.40	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			**No 2003 Sample**			0.39	0.40	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	90	2.5		**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			40	2.0	
Sulfide SM 9034 (mg/L)	<	1	U																0.70	1.0	J
Sulfate USEPA 9056A (mg/L)	58	20																	44	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.1	1																	2.3	1.0	
Alkalinity SM 2320B (mg/L)	26	2																	32	5.0	
Methane RSK-175 (µg/L)	<	1.7	U																<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	11	0.88																	14	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA240-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA240			CA240			CA240			CA240		
COLLECT DATE	3/28/2001			3/13/2000			3/24/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.052	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.253	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	38.2	1		40.4	2		48	2		71.9	4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	49.3	5		72.8	2		61.5	2		41.6	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	9.50	5		7.0	5	
Alkalinity SM 2320B (mg/L)	40.3	5		85.9	5		66	5		30.2	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	44.4	5		37.8	2.2		29.0	2.2		13.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA241			CA241			CA241			CA241			CA241			CA241			CA241		
COLLECT DATE	None			None			3/6/2013			2/29/2012			3/3/2011			3/12/2010			3/5/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	0.733	0.25		<	0.25	UJ	0.087	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.172	1	J	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			22.5	0.1		24	0.1		21	0.1		24	0.5		28	1	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			<	2	U	0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							60.4	1		58	1		55	1		54	25		47	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.3	1		1.6	1		2.1	1		1.3	1		2.3	1	
Alkalinity SM 2320B (mg/L)							115	1.25		122	1.25		112	1		120	5		100	8	
Methane RSK-175 (µg/L)							<	5	UJ	<	5	UJ	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							51	10		54	1.25		50	0.4		52	2.2		45	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA241			CA241			CA241			CA241			CA241			CA241			CA241		
COLLECT DATE	3/6/2008			3/9/2007			3/9/2006			3/11/2005			3/11/2004			3/13/2003			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.16	0.2	J	0.15	0.2	J	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.1	0.2		0.27	0.20		0.20	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	23	1		26	1		17	0.5		18	0.5		21	1		22	1	J	25	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.4	1		<	1.0	U
Sulfate USEPA 9056A (mg/L)	42	10		40	10		38	10		30	10		33	2		37	1		45	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	1.9	1		1.7	1		1.8	1		2.6	1		2.6	1		2.1	1		2.4	1.0	
Alkalinity SM 2320B (mg/L)	110	2		96	8		92	8		94	8		88	5		79	5		90	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	48	0.88		42	0.88		40	0.88		41	0.1		39	0.8		35	1		40	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA241			CA241			CA241			CA241		
COLLECT DATE	3/28/2001			3/13/2000			3/24/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.109	0.1		0.297	0.1		<	0.1	U	0.03	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	20.8	0.5		26.7	2		23	2		24.0	2	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	34.1	5		44.0	2		39.8	2		32.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	7.30	5		7.4	5	
Alkalinity SM 2320B (mg/L)	93.2	5		85.9	5		93	5		104	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	41	5		37.8	2.2		40.9	2.2		45.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA242			CA242			CA242			CA242			CA242			CA242			CA242		
COLLECT DATE	None			None			3/6/2013			3/29/2012			3/3/2011			3/12/2010			3/5/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	<	0.25	UJ	0.037	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.235	1	J	<	1	U	<	1	UJ	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			3.0	0.1		1.5	0.1		2.0	0.1		0.48	0.1		0.68	0.05	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.4	2	J	0.4	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							72.6	1		73	1		66	1		58	25		100	20	
Dissolved Organic Carbon SM 9060A (mg/L)							3.27	1		1.3	1		1.9	1		1.2	1		2.2	1	
Alkalinity SM 2320B (mg/L)							220	1.25		222	1.25		252	1		240	5		250	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	UJ	<	5	UJ	<	5	U	0.25	0.31	J
Carbon Dioxide SM 2320B (mg/L)[1]							98	10		99	1.25		112	0.4		110	2.2		110	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA242			CA242			CA242			CA242			CA242			CA242			CA242		
COLLECT DATE	3/6/2008			3/9/2007			3/9/2006			3/11/2005			3/10/2004			3/13/2003			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.15	0.2	J	0.14	0.2	J	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.1	1		0.78	0.2		0.51	0.2		0.26	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.2	0.5		2.3	1		1.5	0.05		1.3	0.05		4.7	1		4.7	0.5		2.6	0.10	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.5	1		<	1.0	U
Sulfate USEPA 9056A (mg/L)	54	10		39	10		41	20		38	10		38	2		41	5		48	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	1.8	1		1.5	1		1.5	1		2.3	1		2.3	1		1.7	1		2.6	1.0	
Alkalinity SM 2320B (mg/L)	200	2		210	8		200	8		200	8		180	5		190	5		200	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	88	0.88		92	0.88		86	0.88		88	0.1		79	0.3		84	1		88	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA242-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA242			CA242			CA242			CA242		
COLLECT DATE	3/28/2001			3/13/2000			3/24/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.368	0.1		0.106	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.94	0.5		2.43	1		2.06	2		1.22	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	33.4	5		37.9	2		35.9	2		35.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	<	5	U	7.1	5	
Alkalinity SM 2320B (mg/L)	169	5		179	5		183	5		186	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	1.16	1	
Carbon Dioxide SM 2320B (mg/L)[1]	74.4	5		78.8	2.2		80.5	2.2		81.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA250			CA250			CA250			CA250			CA250			CA250			CA250		
COLLECT DATE	None			None			3/5/2013			2/28/2012			3/2/2011			3/10/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	U	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.648	1	J	1.6	1		<	1	UJ	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2016**			**in 2014, 2015, 2016**			6.62	0.1		11	0.1		7.6	0.1		6.9	0.1		9.4	0.5	
Sulfide SM 9034 (mg/L)							0.2	2	J	0.4	2	J	0.4	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							16	1		89	2		51	1		42	5		51	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.93	1		2.6	1		3.0	1		2.1	1		4.6	1	
Alkalinity SM 2320B (mg/L)							160	1.25		161	1.25		148	1		150	5		190	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							71	10		72	1.25		66	0.4		65	2.2		84	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA250			CA250			CA250			CA250			CA250			CA250			CA250		
COLLECT DATE	3/5/2008			3/8/2007			3/9/2006			3/9/2005			3/16/2004			3/12/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.34	0.2		<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.3	0.2		1.50	0.20		0.31	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	17	0.5		17	1		12	0.25		6	0.25		12	1		11	0.5		18	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	0.8	1	J	<	1.00	U	0.90	1.0	J
Sulfate USEPA 9056A (mg/L)	55	20		47	20		74	20		38	10		98	2		140	25	H	110	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.7	1		2.3	1		2	1		1.3	1		2.2	1		2.8	1.0		3.5	1.0	
Alkalinity SM 2320B (mg/L)	120	2		150	8		130	8		160	8		130	5		150	5		160	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	53	0.88		67	0.88		58	0.88		70	0.1		57	0.7		66	1		70	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA250			CA250			CA250			CA250		
COLLECT DATE	3/15/2001			3/15/2000			3/22/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.149	0.1		0.113	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	18.3	0.5		16.2	1		18.5	1		15.2	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	55.2	5		44.7	2		56.4	5		38.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)	6.20	5		<	5	U	<	5	U	7.6	5	
Alkalinity SM 2320B (mg/L)	132	5		162	5		156	5		125	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	58.1	5		71.3	2.2		68.6	2.2		55.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA251			CA251			CA251			CA251			CA251			CA251			CA251		
COLLECT DATE	None			None			3/5/2013			2/28/2012			3/2/2011			3/10/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	U	<	0.25	UJ	0.088	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.847	1	J	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2016**			**in 2014, 2015, 2016**			22	0.1		24	0.1		24	0.1		35	0.5		28	1	
Sulfide SM 9034 (mg/L)							0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							70	1		65	1		61	1		75	25		64	20	
Dissolved Organic Carbon SM 9060A (mg/L)							3.27	1		2.5	1		3.3	1		2.5	1		4.7	1	
Alkalinity SM 2320B (mg/L)							170	1.25		168	1.25		168	1		150	5		160	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							76	10		75	1.25		75	0.4		68	2.2		72	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA251			CA251			CA251			CA251			CA251			CA251			CA251		
COLLECT DATE	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.16	0.2	J	<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.5	0.2		0.12	0.2	J	0.29	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	38	1		40	1		35	1		29	1		34	1		27	1		24	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.10	1.00		0.60	1.0	J
Sulfate USEPA 9056A (mg/L)	59	20		58	20		61	20		46	10		42	2		39	1		42	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.4	1		2.4	1		2.2	1		1.8	1		1.9	1		1.5	1.0		2.3	1.0	
Alkalinity SM 2320B (mg/L)	140	2		120	8		100	8		100	8		89	5		110	5		120	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	62	0.88		53	0.88		46	0.88		44	0.1		39	1.4		48	1		53	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA251			CA251			CA251			CA251		
COLLECT DATE	3/15/2001			3/15/2000			3/22/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.113	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	24	0.5		20.8	1		20.4	1		21.2	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	UJ	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	37.6	5		36.6	2		45.6	5		33.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)	6.20	5		<	5	U	<	5	U	6.9	5	
Alkalinity SM 2320B (mg/L)	104	5		138	5		156	5		141	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	45.8	5		60.7	2.2		68.6	2.2		62.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA252			CA252			CA252			CA252			CA252			CA252			CA252		
COLLECT DATE	None			None			3/5/2013			2/28/2012			3/2/2011			3/10/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	U	<	0.25	UJ	0.07	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.119	1	J	<	1	U	0.42	1	J	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2016**			**in 2014, 2015, 2016**			14.90	0.1		13	0.1		8.4	0.1		13	0.2		14	0.5	
Sulfide SM 9034 (mg/L)							0.401	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							71	1		77	1		62	1		76	25		77	20	
Dissolved Organic Carbon SM 9060A (mg/L)							3.68	1		3.2	1		3.3	1		2.6	1		3.1	1	
Alkalinity SM 2320B (mg/L)							225	1.25		215	1.25		218	1		200	5		220	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							100	10		96	1.25		97	0.4		87	2.2		96	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA252			CA252			CA252			CA252			CA252			CA252			CA252		
COLLECT DATE	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.051	0.05		<	0.05	U	<	0.05	U	0.11	0.2	J	<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.6	0.2		0.32	0.2		0.18	0.20	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	20	0.5		33	1		23	1.3		12	1		25	1		29	1		23	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.1	1		1.3	1.0	
Sulfate USEPA 9056A (mg/L)	88	20		52	20		55	20		51	10		52	2		49	1		51	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.2	1		2.2	1		2.2	1		2.3	1		2.5	1		2.1	1.0		3.0	1.0	
Alkalinity SM 2320B (mg/L)	180	2		160	8		160	8		170	8		160	5		190	5		180	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	0.88		69	0.88		70	0.88		75	0.1		70	0.6		84	1		79	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA252			CA252			CA252			CA252		
COLLECT DATE	3/15/2001			3/15/2000			3/22/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.115	0.1		0.102	0.1		<	0.1	U	0.03	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	22.8	0.5		20.1	1		19.2	1		21.3	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	47.8	5		48.4	2		54.7	5		43.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)	10.90	5		5.90	5		11.7	5		7.2	5	
Alkalinity SM 2320B (mg/L)	183	5		207	5		218	5		212	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	80.5	5		91.1	2.2		95.9	2.2		93.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA253			CA253			CA253			CA253			CA253			CA253			CA253		
COLLECT DATE	None			None			3/6/2013			2/28/2012			3/2/2011			3/8/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.338	0.25		0.293	0.25		<	0.25	UJ	0.086	0.1	J	0.07	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.615	1	J	<	1	UJ	0.374	1	J	0.34	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2016**			**in 2014, 2015, 2016**			<	0.1	U	<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.05	U
Sulfide SM 9034 (mg/L)							<	2	U	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							52.5	1		50	1		47	1		41	5		35	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.71	1		1.7	1		2.1	1		1.1	1		1.9	1	
Alkalinity SM 2320B (mg/L)							190	1.25		181	1.25		182	1		190	5		200	8	
Methane RSK-175 (µg/L)							5.8	5		9.4	5		10	5		19	5		4.7	0.31	
Carbon Dioxide SM 2320B (mg/L)[1]							84	10		80	1.25		81	0.4		84	2.2		88	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA253			CA253			CA253			CA253			CA253			CA253			CA253		
COLLECT DATE	3/5/2008			3/8/2007			3/9/2006			3/10/2005			3/10/2004			3/12/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.097	0.05		0.081	0.05		0.079	0.05		0.08	0.05		0.21	0.2		0.14	0.2	J	0.1	0.20	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.4	1		<	0.25	U	0.26	0.2		0.28	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.1	UJ	<	0.1	U	0.084	0.10	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	0.9	1	J	<	1.0	U
Sulfate USEPA 9056A (mg/L)	32	20		30	10		30	10		29	10		31	2		31	5		32	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)	1.5	1		<	1	U	<	1	U	<	1	U	<	1.2	U	<	1	U	1.7	1.0	
Alkalinity SM 2320B (mg/L)	180	2		180	8		180	8		180	8		170	5		180	5		190	5.0	
Methane RSK-175 (µg/L)	2	1.7		1.3	0.87		0.57	0.87	J	0.94	0.87		<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	0.88		79	0.88		77	0.88		79	0.1		75	0.2		79	1		84	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA253-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA253			CA253			CA253			CA253		
COLLECT DATE	3/20/2001			3/7/2000			3/17/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.11	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.244	0.1		0.635	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	32.9	5		30.1	2		30.6	5		26.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	10.5	5		6.8	5	
Alkalinity SM 2320B (mg/L)	168	5		175	5		183	5		178	5	
Methane RSK-175 (µg/L)	<	1.3	U	0.91	1	J	<	1.95	U	1.61	1	
Carbon Dioxide SM 2320B (mg/L)[1]	73.9	5		77.0	2.2		80.5	2.2		78.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA260-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA260			CA260			CA260			CA260			CA260			CA260			CA260		
COLLECT DATE	None			3/5/2013			2/28/2012			None			3/7/2007			3/9/2006			3/9/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.25	U	<	0.25	U				<	0.05	U	<	0.05	U	0.06	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	UJ	<	1	U	**Not Sampled**			<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			1.72	0.1		12	0.1		**in 2008, 2009, 2010,**			9.8	1		13	0.5	J	16	0.5	
Sulfide SM 9034 (mg/L)				0.2	2	J	0.2	2	J	**2011**			<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				132	10		132	5					24	10		79	20		89	20	
Dissolved Organic Carbon SM 9060A (mg/L)				3.47	1		3.1	1					4.2	1		2.8	1		3.3	1	
Alkalinity SM 2320B (mg/L)				215	1.25		107	1.25					120	8		170	8		190	8	
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]				96	10		48	10					53	0.88		74	0.88		84	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA260-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA260			CA260			CA260			CA260			CA260			CA260			CA260		
COLLECT DATE	3/10/2004			3/12/2003			3/13/2002			3/15/2001			3/8/2000			3/18/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.17	0.2	J	0.13	0.2	J	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	0.071	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.7	0.2		0.56	0.2		0.29	0.20		0.154	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	26	1		15	0.5		17	0.50		9.02	0.5		12.1	1		15	1		23.9	1	
Sulfide SM 9034 (mg/L)	<	1	U	1.2	1		<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	71	2		94	25		96	2.0		15.4	5		74.7	2		77.7	5		51.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	4	1		3.4	1		3.5	1.0		10.1	5		<	5	U	16.4	5		5.1	5	
Alkalinity SM 2320B (mg/L)	120	5		150	5		160	5.0		32.6	5		139	5		101	5		62.5	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	1.03	1	
Carbon Dioxide SM 2320B (mg/L)[1]	53	0.4		66	1		70	1.0		14.3	5		61.2	2.2		44.4	2.2		27.5	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA261-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA261			CA261			CA261			CA261			CA261			CA261			CA261		
COLLECT DATE	None			3/5/2013			2/28/2012			None			3/7/2007			3/9/2006			3/9/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.25	U	<	0.25	U				<	0.05	U	<	0.05	U	0.05	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			0.046	1	J	<	1	U	**Not Sampled**			<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			23.3	0.1		27	0.1		**in 2008, 2009, 2010,**			21	1		14	0.5		22	0.5	
Sulfide SM 9034 (mg/L)				0.2	2	J	0.2	2	J	**2011**			<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				76.3	1		57	1					71	10		65	20		53	20	
Dissolved Organic Carbon SM 9060A (mg/L)				3.07	1		2.1	1					2.2	1		2.3	1		2.5	1	
Alkalinity SM 2320B (mg/L)				110	1.25		91	1.25					140	8		120	8		110	8	U
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]				49	10		40	10					60	0.88		51	0.88		48	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA261-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA261			CA261			CA261			CA261			CA261			CA261			CA261		
COLLECT DATE	3/10/2004			3/11/2003			3/13/2002			3/15/2001			3/8/2000			3/18/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.16	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.4	0.2		<	0.200	U	<	0.20	U	0.100	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	25	1		26	1	J	27	1.0		28.1	0.5		31.0	1		26.7	4		57.1	4	
Sulfide SM 9034 (mg/L)	<	1	U	0.7	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	58	2		50	1		44	1.0		43.8	5		39.9	2		50.7	5		40.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2.5	1		2.2	1.0		2.6	1.0		5.20	5		<	5	U	15.8	5		2.9	5	J
Alkalinity SM 2320B (mg/L)	83	5		100	5		92	5.0		91.6	5		98.4	5		109	5		113	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	37	1.5		44	1		40	1.0		40.3	5		43.3	2.2		48.0	2.2		49.7	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA262-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA262			CA262			CA262			CA262			CA262			CA262			CA262			CA262		
COLLECT DATE	None			3/6/2013			2/28/2012			None			3/7/2007			3/9/2006			3/9/2005					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)				0.304	0.25		<	0.25	U				<	0.050	U	<	0.05	U	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	<	1	U	**Not Sampled**			<	1.0	U	<	1	U	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			13.4	0.1		13	0.1		**in 2008, 2009, 2010,**			11	1.0		6.5	0.25		9.8	0.25				
Sulfide SM 9034 (mg/L)				0.2	2	J	0.2	2	J	**2011**			<	1	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)				74.7	1		70	1					40	10		43	20		62	10				
Dissolved Organic Carbon SM 9060A (mg/L)				2.04	1		<	1	U				1.1	1.0		1.1	1		1.9	1				
Alkalinity SM 2320B (mg/L)				205	1.25		189	1.25					160	8		150	8		130	8				
Methane RSK-175 (µg/L)				<	5	U	<	5	U				<	0.87	U	<	0.87	U	<	0.87	U			
Carbon Dioxide SM 2320B (mg/L)[1]				91	10		84	10					72	0.88		68	0.88		57	0.1				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA262-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA262			CA262			CA262			CA262			CA262			CA262			CA262		
COLLECT DATE	3/10/2004			3/11/2003			3/13/2002			3/15/2001			3/8/2000			3/18/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.15	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	0.032	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.8	0.2		0.34	0.2		0.21	0.20		<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9	1		15.0	0.5		9.9	0.50		12.6	0.5		10.5	2		12.8	1		9.05	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	39	2		52	1		52	1.0		54.5	5		56.9	2		61.7	5		54.0	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	1.3	U	<	1.1	U	1.9	1.0		6.70	5		<	5	U	14.3	5		4.7	5	J
Alkalinity SM 2320B (mg/L)	150	5		180	5		190	5.0		191	5		215	5		231	5		218	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	1.13	1	
Carbon Dioxide SM 2320B (mg/L)[1]	66	0.3		79	1		84	1.0		84.0	5		94.6	2.2		102	2.2		95.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA270			CA270					CA270					CA270			CA270		
COLLECT DATE	None			None					8/10/2015					8/7/2014			None		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	U	0.022	0.050	0.10	0.059	0.1	J			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	U	0.18	0.50	1.0	0.25	1	J	**No 2013 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					11		0.038	0.10	0.20	9.3	0.1		**Well Dry**		
Sulfide SM 9034 (mg/L)									<	U	0.79	1.9	4.0	<	4	UJ			
Sulfate USEPA 9056A (mg/L)									120		0.23	0.50	5.0	230	25				
Dissolved Organic Carbon SM 9060A (mg/L)									4.3		0.16	0.50	1.0	6.4	1				
Alkalinity SM 2320B (mg/L)									180		1.1	3.2	5.0	130	5				
Methane RSK-175 (µg/L)									<	U	0.22	0.80	5.0	<	5	U			
Carbon Dioxide SM 2320B (mg/L)[1]									80		1.1	3.2	5.0	58	5				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA270			CA270			CA270			CA270			CA270			CA270			CA270		
COLLECT DATE	2/29/2012			3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/7/2007			3/8/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.187	0.25	J	<	0.25	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.050	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	UJ	<	1.0	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.1	0.1		10	0.1		6.5	0.1		5.9	0.5		16	0.5		19	1.0		14	0.5	
Sulfide SM 9034 (mg/L)	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	76	1		76	1		65	25		41	20		95	50		130	20		120	50	
Dissolved Organic Carbon SM 9060A (mg/L)	4.5	1		4.9	1		2.7	1		4.9	1		5	1		7.0	1.0		5.4	1	
Alkalinity SM 2320B (mg/L)	167	1.25		168	1		160	5		140	8		160	2		160	8		140	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	74	1.25		75	0.4		70	2.2		63	0.22		70	0.88		70	0.88		63	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA270			CA270			CA270			CA270			CA270			CA270			CA270		
COLLECT DATE	3/8/2005			3/16/2004			3/12/2003			3/14/2002			3/14/2001			3/15/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.37	0.2		0.12	0.2	J	<	0.20	U	0.113	0.1		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	3	0.2		0.55	0.2	J	0.67	0.20		0.139	0.1		0.221	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.4	0.25		11	1		11	0.5		8.9	1.0		7.09	0.5		5.63	1		4.39	1	
Sulfide SM 9034 (mg/L)	<	1	U	0.7	1	J	1.2	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	190	20		100	4		86	25		110	5.0		62.1	5		50.0	2		41.1	5	
Dissolved Organic Carbon SM 9060A (mg/L)	5.9	1		4.3	1		3.3	1		5.6	1.0		8.30	5		6.20	5		12.3	5	
Alkalinity SM 2320B (mg/L)	200	8		140	5		180	5		170	5.0		146	5		149	5		132	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	2.8	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	88	0.1		62	0.9		79	1		75	1.0		64.2	5		65.6	2.2		58.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA270		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.78	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	40.8	2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.5	5	
Alkalinity SM 2320B (mg/L)	178	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	78.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA271			CA271					CA271					CA271			CA271		
COLLECT DATE	None			None					8/10/2015					8/7/2014			3/5/2013		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	0.039	0.1	J	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					18	0.095	0.25	0.50		12.0	0.1		12.7	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	UJ	0.2	2	J
Sulfate USEPA 9056A (mg/L)									91	0.23	0.50	5.0		84	5		96.1	5	
Dissolved Organic Carbon SM 9060A (mg/L)									2.0	0.16	0.50	1.0		2.1	1		2.5	1	
Alkalinity SM 2320B (mg/L)									110	1.1	3.2	5.0		140	5		120	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									49	1.1	3.2	5.0		62	5		53	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA271			CA271			CA271			CA271			CA271			CA271			CA271		
COLLECT DATE	2/29/2012			3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/7/2007			3/8/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.11	0.25	J	<	0.25	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.050	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1.0	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	17	0.1		18	0.1		16	0.5		11	0.5		81	2.5		15	1.0		12	0.25	
Sulfide SM 9034 (mg/L)	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	97	5		98	5		86	25		84	20		100	50		83	10		81	20	
Dissolved Organic Carbon SM 9060A (mg/L)	1.9	1		2.7	1		1.8	1		5.1	1		3.7	1		1.9	1.0		2.2	1	
Alkalinity SM 2320B (mg/L)	319	1.25		132	1		110	5		120	8		110	2		100	8		100	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	142	1.25		59	0.4		50	2.2		52	0.22		48	0.88		46	0.88		46	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA271			CA271			CA271			CA271			CA271			CA271			CA271		
COLLECT DATE	3/8/2005			3/9/2004			3/12/2003			3/13/2002			3/14/2001			3/15/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.13	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.79	0.2		0.3	0.2		0.29	0.20		0.279	0.1		0.373	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	3	0.25		9.6	1		11	0.5		12	1.0		9.79	0.5		12.0	1		9.2	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1.1	1		1.1	1.0		<	1	U	<	1	UJ	<	1	U
Sulfate USEPA 9056A (mg/L)	65	10		66	2		88	25		72	2.0		58.8	5		55.6	2		51	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.1	1		1.9	1		2	1		2.7	1.0		8.40	5		<	5	U	16.5	5	
Alkalinity SM 2320B (mg/L)	100	8		100	5		150	5		130	5.0		116	5		111	5		132	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	44	0.1		44	1.5		66	1		57	1.0		51	5		48.8	2.2		58.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA271		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	10.9	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	53.1	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.4	5	
Alkalinity SM 2320B (mg/L)	162	5	
Methane RSK-175 (µg/L)	1.2	1	
Carbon Dioxide SM 2320B (mg/L)[1]	71.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA272			CA272					CA272					CA272			CA272		
COLLECT DATE	None			None					8/10/2015					8/7/2014			3/5/2013		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	0.025	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					23	0.095	0.25	0.50		27	1		1.01	0.1	J
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	U	0.401	2	J
Sulfate USEPA 9056A (mg/L)									73	0.23	0.50	5.0		72	5		68.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)									2	0.16	0.50	1.0		2.1	1		2.45	1	
Alkalinity SM 2320B (mg/L)									130	1.1	3.2	5.0		110	5		110	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.22	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									58	1.1	3.2	5.0		49	5		49	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA272			CA272			CA272			CA272			CA272			CA272			CA272		
COLLECT DATE	2/29/2012			3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/7/2007			3/8/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.098	0.25	J	<	0.25	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	24	0.1		23	0.1		23	0.5		20	0.5		18.0	0.5		25	1		18	0.5	
Sulfide SM 9034 (mg/L)	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	70	1		67	1		55	25		49	20		61	5		69	20		55	20	
Dissolved Organic Carbon SM 9060A (mg/L)	1.6	1		2.3	1		1.3	1		3.3	1		2.2	1		1.6	1		1.7	1	
Alkalinity SM 2320B (mg/L)	151	1.25	J	112	1		120	5		130	8		120	2		120	8		130	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	67	1.25	J	50	0.4		54	2.2		58	0.22		53	0.88		55	0.88		57	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA272			CA272			CA272			CA272			CA272			CA272			CA272		
COLLECT DATE	3/8/2005			3/9/2004			3/12/2003			3/13/2002			3/14/2001			3/15/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.17	0.2	J	<	0.2	U	<	0.2	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.67	0.2		0.18	0.2	J	0.34	0.2		<	0.1	U	0.198	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	16.0	0.5		18	1		16.0	0.5		13.0	0.5		10.7	0.5		8.79	1		6.32	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	48	10		42	2		44	1		50	1		54.6	5		51.7	2		53.3	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.9	1		<	1.7	U	1.4	1		2	1		<	5	U	7.20	5		16.1	5	
Alkalinity SM 2320B (mg/L)	140	8		140	5		170	5		190	5		159	5		172	5		169	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	62	0.1		62	0.8		75	1		84	1		70	5		75.7	2.2		74.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA272		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.60	1	
Sulfide SM 9034 (mg/L)	0.23	1	J
Sulfate USEPA 9056A (mg/L)	48.6	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.1	5	
Alkalinity SM 2320B (mg/L)	171	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	75.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA273			CA273					CA273					CA273			CA273		
COLLECT DATE	None			None					8/10/2015					8/8/2014			3/5/2013		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									0.11	0.022	0.050	0.10		0.087	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					0.24	0.18	0.50	1.0	J	<	1	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					<	0.019	0.050	0.10	U	<	0.1	U	<	0.1	U
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									27	0.23	0.50	5.0		28	5		28.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)									0.87	0.16	0.50	1.0	J	0.86	1	J	1.41	1	
Alkalinity SM 2320B (mg/L)									180	1.1	3.2	5.0		170	5		175	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	1.1	5	J	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									80	1.1	3.2	5.0		76	5		78	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA273			CA273			CA273			CA273			CA273			CA273			CA273		
COLLECT DATE	2/29/2012			3/2/2011			3/10/2010			3/3/2009			3/5/2008			3/8/2007			3/8/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.283	0.25		0.11	0.1		0.064	0.05		0.18	0.05		0.097	0.05		0.065	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	0.443	1	J	0.15	1	J	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.153	0.1		0.005	0.1	J	<	0.1	U	<	0.05	U	<	0.05	U	0.065	0.05		<	0.05	U
Sulfide SM 9034 (mg/L)	0.4	2	J	0.4	2	J	<	4	U	<	1	U	<	1	U	4	1		<	1	U
Sulfate USEPA 9056A (mg/L)	31	1		27	1		25	5		28	20		27	20		25	10		24	10	
Dissolved Organic Carbon SM 9060A (mg/L)	<	1	UJ	1.4	1		0.48	1	J	2.6	1		1.5	1		<	1	U	1.1	1	
Alkalinity SM 2320B (mg/L)	158	1.25		182	1		180	5		180	8		170	2		190	8		180	8	
Methane RSK-175 (µg/L)	<	5	UJ	<	5	UJ	<	5	U	0.3	0.31	J	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	70	1.25		81	0.4		80	2.2		77	0.22		75	0.88		83	0.88		81	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA273			CA273			CA273			CA273			CA273			CA273			CA273		
COLLECT DATE	3/8/2005			3/9/2004			3/12/2003			3/13/2002			3/14/2001			3/15/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.07	0.05		0.13	0.2	J	0.11	0.2	J	0.07	0.20	J	0.203	0.1		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	0.21	U	0.21	0.2		0.29	0.20		0.229	0.1		0.322	0.1		1.00	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.1	U	<	0.1	U	0.073	0.10	J	<	0.5	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.6	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	23	10		24	2		23	5		23	1.0		24.2	5		27.1	0.2		28.8	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.2	1		<	1.1	U	<	1	U	1.5	1.0		<	5	U	8.10	5		12.4	5	
Alkalinity SM 2320B (mg/L)	190	8		170	5		180	5		210	5.0		172	5		189	5		202	5	
Methane RSK-175 (µg/L)	0.29	0.87	J	<	2	U	<	2	U	<	2.0	U	<	1.2	U	<	1	U	0.651	1	J
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.1		75	0.2		79	1		92	1.0		75.7	5		83.2	2.2		88.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA273		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.071	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.08	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Sulfide SM 9034 (mg/L)	0.23	1	J
Sulfate USEPA 9056A (mg/L)	23.2	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.3	5	
Alkalinity SM 2320B (mg/L)	198	5	
Methane RSK-175 (µg/L)	1.22	1	
Carbon Dioxide SM 2320B (mg/L)[1]	87.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA280			CA280			CA280			CA280			CA280			CA280			CA280		
COLLECT DATE	None			None			None			3/9/2012			3/2/2011			3/8/2010			3/3/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)										<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			**No 2013 Sample**			<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			**Well Dry**			4.8	0.1		3.3	0.1		6.9	0.1		13	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**						0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)										46	1		19	1		52	25		51	20	
Dissolved Organic Carbon SM 9060A (mg/L)										1.9	1		1.9	1		1.4	1		3.1	1	
Alkalinity SM 2320B (mg/L)										100	1.25		65	1		110	5		110	8	
Methane RSK-175 (µg/L)										0.5	5	J	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]										44	1.25		29	0.4		50	2.2		50	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA280			CA280			CA280			CA280			CA280			CA280			CA280		
COLLECT DATE	3/4/2008			3/6/2007			3/7/2006			None			None			3/11/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U							<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	**No 2005 Sample**			**No 2004 Sample**			3.2	1		0.81	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.9	0.25		9.9	1		16	0.5		**Well Dry**			**Well Dry**			8.3	0.5		11	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U							1.1	1		<	1.0	U
Sulfate USEPA 9056A (mg/L)	19	1		24	10		40	20								18	1		30	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2	1		1.8	1		1.4	1								<	1.2	U	2.1	1.0	
Alkalinity SM 2320B (mg/L)	48	2		64	8		84	8								48	5		59	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U							<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	21	0.88		28	0.88		37	0.88								21	1		26	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA280-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA280			CA280			CA280			CA280		
COLLECT DATE	3/13/2001			3/8/2000			3/18/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.10	0.1		0.235	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	11.5	1		2.35	1		1.9	1		7.24	1	
Sulfide SM 9034 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	39.7	5		9.68	2		16.2	5		11.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	14.7	5		6.4	5	
Alkalinity SM 2320B (mg/L)	68.2	5		40.4	5		51	5		50.5	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	30	5		17.8	2.2		22.4	2.2		22.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA281			CA281			CA281			CA281			CA281			CA281			CA281		
COLLECT DATE	None			None			3/5/2013			2/27/2012			3/2/2011			3/8/2010			3/3/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	U	<	0.25	UJ	0.076	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			14	0.1		14	0.1		15	0.1		17	0.5		19	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							71.5	1		61	1		64	1		62	25		54	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.11	1		4.5	1		2.1	1		1.6	1		3.2	1	
Alkalinity SM 2320B (mg/L)							70	1.25		79	1.25		73	1		74	5		73	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							31	1.25		35	1.25		32	0.4		32	2.2		32	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA281			CA281			CA281			CA281			CA281			CA281			CA281		
COLLECT DATE	3/4/2008			3/6/2007			3/7/2006			3/8/2005			3/9/2004			3/11/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.35	0.05		0.091	0.05		0.42	0.05		0.62	0.05		0.37	0.2		<	0.2	U	0.19	0.20	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.2	0.2		0.52	0.2		0.92	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	25	1		25	1		10	0.5		18	0.5		16	1		16	0.5		14	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Sulfate USEPA 9056A (mg/L)	65	10		47	10		45	20		40	10		39	2		44	1		53	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.4	1		1.6	1		1.6	1		1.5	1		<	1.7	U	1.6	1		2.5	1.0	
Alkalinity SM 2320B (mg/L)	56	2		56	8		58	8		56	8		58	5		81	5		100	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	25	0.88		25	0.88		26	0.88		25	0.1		26	1.9		36	1		44	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA281-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA281			CA281			CA281			CA281		
COLLECT DATE	3/13/2001			3/8/2000			3/18/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.165	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	12.6	0.5		12.5	1		11.5	1		11.7	2	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	42.9	5		41.9	2		48	5		40.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)	6.40	5		<	5	U	14.5	5		7.5	5	
Alkalinity SM 2320B (mg/L)	75.8	5		90.9	5		109	5		118	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	33.4	5		40.0	2.2		48.0	2.2		51.9	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA282			CA282			CA282			CA282			CA282			CA282			CA282		
COLLECT DATE	None			None			3/5/2013			2/27/2012			3/2/2011			3/8/2010			3/3/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.458	0.25		<	0.25	U	<	0.25	UJ	0.03	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			0.721	0.1		11	0.1		14	0.1		15	0.5		16	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							54.4	1		43	1		45	1		45	5		41	20	
Dissolved Organic Carbon SM 9060A (mg/L)							2.07	1		1.1	1		1.9	1		1.1	1		3	1	
Alkalinity SM 2320B (mg/L)							115	1.25		125	1.25		132	1		120	5		120	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							51	10		56	1.25		59	0.4		54	2.2		53	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA282			CA282			CA282			CA282			CA282			CA282			CA282		
COLLECT DATE	3/4/2008			3/7/2007			3/7/2006			3/8/2005			3/9/2004			3/11/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.11	0.2	J	<	0.2	U	0.11	0.20	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	0.92	0.2		1.1	0.2		0.70	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	17	0.5		15	1		7.7	0.5		4.3	0.25		13	1		13	0.5		14	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	0.6	1	J	<	1.0	U
Sulfate USEPA 9056A (mg/L)	50	10		41	10		42	20		37	10		43	2		42	1		45	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.3	1		1.3	1		1.4	1		1.6	1		<	1.6	U	<	1.4	U	2.1	1.0	
Alkalinity SM 2320B (mg/L)	110	2		130	8		120	8		120	8		110	5		150	5		140	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	48	0.88		56	0.88		53	0.88		53	0.1		48	0.8		66	1		62	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA282			CA282			CA282			CA282		
COLLECT DATE	3/13/2001			3/8/2000			3/18/1999			6/11/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.11	0.1		0.176	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	17.3	0.5		14.9	1		14.9	1		16.9	2	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	42.5	5		41.7	2		47.3	5		40.2	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	17.7	5		5.7	5	
Alkalinity SM 2320B (mg/L)	111	5		121	5		127	5		129	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	48.8	5		53.2	2.2		55.9	2.2		56.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA290R			CA290R					CA290R					CA290R			CA290R		
COLLECT DATE	None			None					8/6/2015					8/8/2014			3/4/2013		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									0.04	0.022	0.05	0.1	J	0.17	0.1		<	0.25	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.5	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					8.3	0.0	0.1	0.2		7.1	0.1		7.69	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4	U	8	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									56	0.23	0.5	5		75	5		54.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)									2.8	0.2	0.5	1		3.3	1		3.12	1	
Alkalinity SM 2320B (mg/L)									320	1.1	3.2	5		370	5	J	300	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.8	5	UJ	0.44	5	J	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									142	1	3.2	5		164	5		133	10	

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA290R			CA290R			CA290R			CA290R			CA290R			CA290R			CA290R		
COLLECT DATE	2/28/2012			3/1/2011			3/8/2010			3/2/2009			3/3/2008			3/5/2007			3/7/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.13	0.25	J	<	0.25	UJ	0.051	0.1	J	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.6	0.1		6.6	0.1		7.3	0.1		5.8	0.5		8.8	0.25		6	1		6.5	0.25	
Sulfide SM 9034 (mg/L)	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	59	1		46	1		50	25		46	20		42	10		36	10		38	20	
Dissolved Organic Carbon SM 9060A (mg/L)	3.2	1		3.2	1		2.2	1		3.2	1		3.1	1		2.9	1		3.4	1	
Alkalinity SM 2320B (mg/L)	417	1.25		392	1		330	5		320	8		240	2		350	8		350	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	185	1.25		174	0.4		150	2.2		140	0.22		106	0.88		160	0.88		150	0.88	

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA290R			CA290R			CA290			CA290			CA290			CA290			CA290		
COLLECT DATE	3/7/2005			3/9/2004			3/11/2003			3/12/2002			3/14/2001			3/8/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.12	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	0.48	U	0.71	0.2		<	0.20	U	<	0.1	U	0.118	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.6	0.25		2.9	0.1		17	0.5		34	1.0		30.1	1		36.9	2		26.6	2	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1.6	1		<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	40	10		33	2		53	1		50	1.0		46.6	5		38.0	2		41.3	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.2	1		3.5	1		2.3	1		2.4	1.0		<	5	U	<	5	U	18.1	5	
Alkalinity SM 2320B (mg/L)	370	8		200	5		270	5		140	5.0		199	5		156	5		205	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	160	0.1		88	0.4		119	1		62	1.0		87.6	5		68.6	2.2		90.2	2.2	

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA290		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.19	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	30.1	2	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	44.4	2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.4	5	
Alkalinity SM 2320B (mg/L)	232	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	102	2.2	

Notes:
*CA290 was abandoned and replaced by CA290R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA291R			CA291R					CA291R					CA291R			CA291R		
COLLECT DATE	None			8/6/2015					8/6/2015					8/8/2014			3/4/2013		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									0.044	0.022	0.050	0.10	J	0.054	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					13	0.038	0.050	0.20		13	0.1		13.5	0.1	
Sulfide SM 9034 (mg/L)									0.8	0.79	1.9	4.0	J	<	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									57	0.23	0.50	5.0		69	5		68.5	1	
Dissolved Organic Carbon SM 9060A (mg/L)									2.1	0.16	0.50	1.0		2.1	1		2.38	1	
Alkalinity SM 2320B (mg/L)									130	1.1	3.2	5.0		150	5		190	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	UJ	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									58	1.1	3.2	5.0		67	5		84	10	

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA291R			CA291R			CA291R			CA291R			CA291R			CA291R			CA291R		
COLLECT DATE	2/28/2012			3/2/2011			3/8/2010			3/2/2009			3/3/2008			3/5/2007			3/7/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.152	0.25	J	<	0.25	UJ	0.089	0.1	J	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	11	0.1		12	0.1		16	0.5		15	0.5		14	0.5		10	1		11	0.5	
Sulfide SM 9034 (mg/L)	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	55	1		59	1		56	25		53	20		47	10		30	10		40	20	
Dissolved Organic Carbon SM 9060A (mg/L)	1.7	1		2.1	1		1.4	1		2.4	1		2.7	1		2.4	1		2.2	1	
Alkalinity SM 2320B (mg/L)	169	1.25		162	1		150	5		170	8		170	2		160	8		160	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	75	1.25		72	0.4		64	2.2		76	0.22		75	0.88		70	0.88		70	0.88	

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA291R			CA291R			CA291			CA291			CA291			CA291			CA291		
COLLECT DATE	3/8/2005			3/9/2004			3/11/2003			3/12/2002			3/14/2001			3/8/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.12	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.7	0.2		0.48	0.2		0.14	0.20	J	<	0.1	U	0.347	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	10	0.25		9.3	1		22	1		27	1.0		27.6	1		24.7	1		27.6	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1.1	1		<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	36	20		44	2		49	1		45	1.0		44	5		37.8	2		46.1	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2.8	1		3.1	1		1.9	1		2.2	1.0		<	5	U	<	5	U	14.4	5	
Alkalinity SM 2320B (mg/L)	150	8		200	5		170	5		130	5.0		109	5		93.4	5		110	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	66	0.1		88	0.5		75	1		57	1.0		48	5		41.1	2.2		48.4	2.2	

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA291		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.026	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.037	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	19.4	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	39	2	
Dissolved Organic Carbon SM 9060A (mg/L)	3.8	5	J
Alkalinity SM 2320B (mg/L)	87.9	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	39.7	2.2	

Notes:
*CA291 was abandoned and replaced by CA291R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA292R			CA292R					CA292R					CA292R			CA292R		
COLLECT DATE	None			8/6/2015					8/6/2015					8/8/2014			3/4/2013		
	Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	0.03	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					13	0.038	0.10	0.20		15	0.1		5.38	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	U	0.401	2	J
Sulfate USEPA 9056A (mg/L)									55	0.23	0.50	5.0		70	5		36.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.5	0.16	0.50	1.0		1.7	1		1.62	1	
Alkalinity SM 2320B (mg/L)									140	1.1	3.2	5.0		130	5		165	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	UJ	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									62	1.1	3.2	5.0		58	5		73	10	

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA292R			CA292R			CA292R			CA292R			CA292R			CA292R			CA292R		
COLLECT DATE	2/28/2012			3/2/2011			3/8/2010			3/3/2009			3/3/2008			3/6/2007			3/7/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.196	0.25	J	<	0.25	UJ	0.065	0.1	J	<	0.05	U	<	0.05	U	<	0.050	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.369	1	J	0.12	1	J	<	1	U	<	1	U	<	1.0	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.6	0.1		0.256	0.1		1.1	0.1		0.67	0.05		3.8	0.25		4.1	1.0		2.4	0.05	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	22	1		20	1		21	5		20	2		32	10		41	10		29	20	
Dissolved Organic Carbon SM 9060A (mg/L)	0.523	1	J	1.2	1		0.43	1	J	2.3	1		1.5	1		1.5	1.0		1.1	1	
Alkalinity SM 2320B (mg/L)	153	1.25		178	1		190	5		190	8		170	2		160	8		180	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	0.74	5	J	0.77	0.31		<	1.7	U	0.47	0.87	J	0.58	0.87	J
Carbon Dioxide SM 2320B (mg/L)[1]	68	1.25		79	0.4		84	2.2		82	0.22		75	0.88		72	0.88		79	0.88	

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA292R			CA292R			CA292			CA292			CA292			CA292			CA292		
COLLECT DATE	3/8/2005			3/9/2004			3/11/2003			3/12/2002			3/14/2001			3/8/2000			3/17/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.12	0.2	J	<	0.2	U	<	0.2	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.65	0.2		0.99	0.2		<	0.2	U	0.119	0.1		0.159	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.2	0.05		6.8	1		7.5	0.5		7.2	0.5		8.36	0.5		6.19	1		6.34	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.8	1	J	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	36	10		44	2		49	1		46	1		47	5		40.5	2		36.5	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.7	1		<	1.6	U	1.5	1		2.1	1		<	5	U	<	5	U	9.70	5	
Alkalinity SM 2320B (mg/L)	180	8		160	5		190	5		160	5		141	5		149	5		148	5	
Methane RSK-175 (µg/L)	0.52	0.87	J	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	0.1		70	0.4		84	1		70	1		62	5		65.6	2.2		65.1	2.2	

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292R-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA292		
COLLECT DATE	6/10/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.42	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	34.2	2	
Dissolved Organic Carbon SM 9060A (mg/L)	4.0	5	J
Alkalinity SM 2320B (mg/L)	144	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	63.4	2.2	

Notes:
*CA292 was abandoned and replaced by CA292R in 2004.
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA310			CA310					CA310			CA310			CA310			CA310		
COLLECT DATE	None			8/6/2015					None			8/11/2014			3/4/2013			2/27/2012		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)												0.033	0.1	J	<	0.25	U	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					**No 2015 Sample**			<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					**Well Dry**			17	1		10.9	0.1		19	0.1	
Sulfide SM 9034 (mg/L)												<	4	U	0.2	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)												130	5		97.8	5		89	2	
Dissolved Organic Carbon SM 9060A (mg/L)												3.4	1		3.61	1		5.4	1	
Alkalinity SM 2320B (mg/L)												320	5		270	1.25		309	1.25	
Methane RSK-175 (µg/L)												<	5	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]												142	5		120	10		137	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA310			CA310			CA310			CA310			CA310			CA310			CA310		
COLLECT DATE	2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/5/2007			3/6/2006			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.088	0.25	J	<	0.1	U	<	0.05	U	0.2	0.05		<	0.05	U	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.687	1	J	0.58	1	J	<	1	U	<	1	U	<	1	U	<	1	U	**No 2005 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	11	0.1		5.2	0.1		0.38	0.05		13	0.5		15	0.5		6.6	0.5		**Well Dry**		
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)	205	10		150	25		17	1		150	10		110	10		150	20				
Dissolved Organic Carbon SM 9060A (mg/L)	6.2	1		4.6	1		2.8	1		5.1	1		3.8	1		1.5	1				
Alkalinity SM 2320B (mg/L)	362	1		370	5		190	8		380	4		360	8		390	8				
Methane RSK-175 (µg/L)	<	5	UJ	3.9	5	J	0.48	0.31		10	1.7		19	0.87		3.4	0.87				
Carbon Dioxide SM 2320B (mg/L)[1]	161	0.4		160	2.2		84	0.22		167	0.88		160	0.88		170	0.88				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA310			CA310			CA310			CA310			CA310			CA310			CA310		
COLLECT DATE	3/8/2004			3/10/2003			3/12/2002			3/13/2001			3/7/2000			3/15/1999			6/9/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	2.3	0.2		<	0.2	U	<	0.21	U	<	0.1	U	--	--	--	<	0.1	U	0.045	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	20	2		0.54	0.2		<	0.45	U	0.124	0.1		--	--	--	<	0.1	U	0.30	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	23	2		22	0.5	J	19.7	0.5		7.85	0.5		--	--	--	9.83	1		4.92	1	
Sulfide SM 9034 (mg/L)	<	1.6	U	0.7	1	J	<	1.0	U	<	1	U	--	--	--	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	130	4		86	5		100	5.0		147	5		--	--	--	64.5	5		47.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)	8.2	1		1.8	1		3.5	1.0		<	5	U	--	--	--	20.5	5		9.7	5	
Alkalinity SM 2320B (mg/L)	330	5		420	5		300	5.0		336	5		--	--	--	359	5		434	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	4.5	1		0.98	1	J	<	1	U	1.22	1	
Carbon Dioxide SM 2320B (mg/L)[1]	145	0.4		185	1		130	1.0		148	5		--	--	--	158	2.2		191	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA311			CA311					CA311					CA311			CA311		
COLLECT DATE	None			8/6/2015					8/6/2015					8/11/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									0.039	0.022	0.050	0.10	J	0.046	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					11	0.038	0.10	0.20		11	1		9.8	0.1	
Sulfide SM 9034 (mg/L)									0.8	0.79	1.9	4.0	J	<	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									86	0.23	0.50	5.0		67	5		69.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.7	0.16	0.50	1.0		1.7	1		2.22	1	
Alkalinity SM 2320B (mg/L)									220	1.1	3.2	5.0		180	5		230	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	UJ	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									98	1.1	3.2	5.0		80	5		102	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA311			CA311			CA311			CA311			CA311			CA311			CA311		
COLLECT DATE	2/27/2012			2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/6/2007			3/7/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.049	0.25	J	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.4	0.1		10	0.1		9.3	0.2		10	0.5		11	0.5		11	0.5		13	0.5	
Sulfide SM 9034 (mg/L)	<	2	U	0.4	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	63	1		58	1		49	5		56	50		51	10		55	10		52	20	
Dissolved Organic Carbon SM 9060A (mg/L)	1.3	1		2.0	1		1.2	1		2.2	1		1.9	1		1.5	1		1.6	1	
Alkalinity SM 2320B (mg/L)	191	1.25		195	1		200	5		230	8		180	2		190	8		180	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	85	1.25		87	0.4		87	2.2		100	0.22		79	0.88		83	0.88		79	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA311			CA311			CA311			CA311			CA311			CA311			CA311		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/12/2002			3/13/2001			3/7/2000			3/16/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.15	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	0.110	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.96	0.2		0.24	0.2		<	0.68	U	<	0.1	U	0.235	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4	0.25		9.3	0.5		13	0.5		15	0.50		15.4	0.5		14.6	1		12.5	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.8	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	51	10		61	4		78	25		61	5.0		56.3	5		57.8	2		57.6	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.6	1		5	1		3.2	1		2.4	1.0		<	5	U	<	5	U	15.3	5	
Alkalinity SM 2320B (mg/L)	190	8		190	5		280	5		260	5.0		230	5		264	5		269	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.1		84	0.7		123	1		110	1.0		101	5		116	2.2		118	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA311		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	13.6	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	57.0	2	
Dissolved Organic Carbon SM 9060A (mg/L)	6.6	5	
Alkalinity SM 2320B (mg/L)	288	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	127	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA312			CA312					CA312					CA312			CA312		
COLLECT DATE	None			8/6/2015					8/6/2015					8/11/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									0.19	0.022	0.050	0.10	J	<	0.1	U	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					14	0.038	0.10	0.20		15	1	J	1.14	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									65	0.23	0.50	5.0		63	5		64.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.4	0.16	0.50	1.0		1.5	1		1.98	1	J
Alkalinity SM 2320B (mg/L)									140	1.1	3.2	5.0		130	5		140	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									62	1.1	3.2	5.0		58	5		62	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA312			CA312			CA312			CA312			CA312			CA312			CA312		
COLLECT DATE	2/28/2012			2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/6/2007			3/7/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.122	0.25	J	0.043	0.25	J	0.065	0.1	J	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.338	1	J	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.0	0.1		9.6	0.1		9.5	0.1		10	0.25		13	0.5		16	0.5		17	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	47	1		47	1		44	5		48	20		49	10		45	10		49	20	
Dissolved Organic Carbon SM 9060A (mg/L)	0.926	1	J	1.9	1		1	1		2	1		2.1	1		1.4	1		1.5	1	
Alkalinity SM 2320B (mg/L)	137	1.25		135	1		160	5		180	8		130	2		130	8		140	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	61	1.25		60	0.4		72	2.2		77	0.22		57	0.88		58	0.88		62	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA312			CA312			CA312			CA312			CA312			CA312			CA312		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/11/2002			3/13/2001			3/7/2000			3/16/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.23	0.2		0.16	0.2	J	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.1	0.2		0.24	0.2	J	<	0.21	U	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.3	0.5	J	12	0.5		10	0.5		12	0.50		12.8	0.5		12.5	1		11.1	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.7	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44	20		47	1		52	1		50	5.0		47.4	5		40.9	2		37.1	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.7	1		<	1.6	U	<	1.4	U	2.2	1.0		5.80	5	J	<	5	U	15.7	5	
Alkalinity SM 2320B (mg/L)	130	8		120	5		190	5		160	5.0		167	5		172	5		181	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	57	0.1		53	0.9		84	1		70	1.0		73.5	5		75.7	2.2		79.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-33
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA312		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.050	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	12.0	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	35.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)	6.1	5	
Alkalinity SM 2320B (mg/L)	155	5	J
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	68.2	2.2	J

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA313			CA313					CA313					CA313			CA313		
COLLECT DATE	None			8/6/2015					8/6/2015					8/11/2014			3/5/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									0.15	0.022	0.050	0.10		0.1	0.1		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					0.25	0.18	0.50	1.0	J	<	1	U	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					<	0.019	0.050	0.10	U	<	0.1	U	<	0.1	UJ
Sulfide SM 9034 (mg/L)									0.8	0.79	1.9	4.0	J	<	4	U	0.401	2	J
Sulfate USEPA 9056A (mg/L)									15	0.23	0.50	5.0		11	5		13.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)									0.64	0.16	0.50	1.0	J	0.57	1	J	1.24	1	
Alkalinity SM 2320B (mg/L)									170	1.1	3.2	5.0		170	5		185	1.25	
Methane RSK-175 (µg/L)									1.1	0.22	0.80	5.0	J	1.2	5	J	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									76	1.1	3.2	5.0		76	5		82	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA313			CA313			CA313			CA313			CA313			CA313			CA313		
COLLECT DATE	2/28/2012			2/28/2011			3/8/2010			3/2/2009			3/4/2008			3/8/2007			3/7/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.135	0.25	J	0.096	0.1	J	0.072	0.05		0.06	0.05		0.11	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	UJ	0.24	1	J	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	<	0.1	UJ	<	0.1	U	0.05	0.05		0.059	0.05		0.065	0.05		<	0.05	U
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	13.4	1		13	1		12	5		12	1		13	1		40	10		13	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	1	U	1.8	1		0.35	1	J	1.1	1		1.3	1		3.9	1		<	1	U
Alkalinity SM 2320B (mg/L)	179	1.25		175	1		200	5		190	8		180	2		200	8		190	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	0.63	5	J	0.54	0.31		<	1.7	U	<	0.87	U	0.44	0.87	J
Carbon Dioxide SM 2320B (mg/L)[1]	80	1.25		78	0.4		88	2.2		85	0.22		79	0.88		90	0.88		83	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA313			CA313			CA313			CA313			CA313			CA313			CA313		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/11/2002			3/13/2001			3/7/2000			3/16/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.17	0.2	J	0.17	0.2	J	0.17	0.20	J	0.220	0.1		0.232	0.1		0.112	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	0.3	U	0.34	0.2		<	0.24	U	0.393	0.1		0.694	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.14	0.05		<	0.1	U	0.064	0.1	J	<	0.10	U	<	0.5	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.9	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	11	10		12	1		15	5		14	5.0		16.9	5		14.4	2		16.7	5	
Dissolved Organic Carbon SM 9060A (mg/L)	<	1	U	<	1	U	<	1	U	1.5	1.0		<	5	U	<	5	U	17.1	5	
Alkalinity SM 2320B (mg/L)	190	8		190	5		250	5		210	5.0		187	5		203	5		204	5	
Methane RSK-175 (µg/L)	0.63	0.87	J	<	2	U	<	2	U	<	2.0	U	<	1.2	U	0.54	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.1		84	0.3		110	1		92	1.0		82.3	5		89.3	2.2		89.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-34
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA313-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA313		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.026	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.08	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	11.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.4	5	
Alkalinity SM 2320B (mg/L)	237	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	104	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA322			CA322			CA322			CA322			CA322			CA322			CA322		
COLLECT DATE	None			None			3/5/2013			2/28/2012			3/1/2011			3/5/2010			3/3/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	U	0.047	0.25	J	<	0.1	UJ	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	UJ	<	1	UJ	<	1	UJ	<	1	UJ	<	1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			<	0.1	U	12	0.1	J	15	0.1		12	0.5	J	17	0.5	J
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							51.6	1		48	1		44	1		38	5		33	20	J
Dissolved Organic Carbon SM 9060A (mg/L)							1.93	1		<	1	U	1.6	1		1.2	1		2.2	1	J
Alkalinity SM 2320B (mg/L)							145	1.25		134	1.25		168	1		170	5		170	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							64	10		60	1.25		75	0.4		77	2.2		74	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA322			CA322			CA322			CA322			CA322			CA322			CA322		
COLLECT DATE	3/3/2008			3/6/2007			3/7/2006			3/8/2005			3/9/2004			3/11/2003			3/12/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	0.14	0.2	J	0.05	0.20	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	UJ	<	1	U	0.86	0.2		0.41	0.2	J	<	0.23	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	19	0.5		18	0.5	J	19	0.5		15	0.5	J	16	1		16	0.5		16	0.50	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	0.8	1	J	<	1.0	U
Sulfate USEPA 9056A (mg/L)	40	10		38	10		33	20		31	20		31	2		31	1		31	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.4	1		1.8	1		1.9	1		1.8	1		<	2	U	1.7	1		2.0	1.0	
Alkalinity SM 2320B (mg/L)	150	2		160	8		150	8		150	8		140	5		180	5		150	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	66	0.88		72	0.88		66	0.88		66	0.1		62	0.6		79	1		66	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-35
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA322			CA322			CA322			CA322		
COLLECT DATE	3/13/2001			3/8/2000			3/16/1999			6/10/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.078	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.176	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	15.9	1		15.5	1		15.1	1		15.4	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	29.9	5		28.4	2		33.7	5		25.1	2	
Dissolved Organic Carbon SM 9060A (mg/L)	4.8	5		<	5	U	16.8	5		4.5	5	
Alkalinity SM 2320B (mg/L)	134	5		151	5		168	5		171	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	1.03	1	
Carbon Dioxide SM 2320B (mg/L)[1]	59	5		66.4	2.2		73.9	2.2		75.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA330			CA330					CA330					CA330			CA330		
COLLECT DATE	None			None					8/7/2015					8/11/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	UJ	0.04	0.1	J	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	UJ	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					6.0	0.038	0.10	0.20		8.7	0.1	J	9.7	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	UJ	<	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									36	0.23	0.50	5.0		64	5		38.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)									2.0	0.16	0.50	1.0		2.3	1		2.45	1	J
Alkalinity SM 2320B (mg/L)									300	1.1	3.2	5.0		280	5		325	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									133	1.1	3.2	5.0		124	5		144	10	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA330			CA330			CA330			CA330			CA330			CA330			CA330		
COLLECT DATE	2/27/2012			2/28/2011			3/5/2010			3/2/2009			3/3/2008			3/5/2007			3/6/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.041	0.25	J	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	UJ	<	1	U	<	1	UJ	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	10	0.1	J	10	0.1		9.3	0.2	J	5	0.25		9.8	0.5	J	14	1		17	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	35	1		37	1		44	5		28	20	J	43	20		50	20		47	20	
Dissolved Organic Carbon SM 9060A (mg/L)	2.2	1		2.4	1		2.3	1		3.8	1		2.6	1		1.9	1		2.7	1	
Alkalinity SM 2320B (mg/L)	291	1.25		275	1		390	5		460	8		330	4		320	8		360	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	129	1.25		122	0.4		170	2.2		200	0.22		145	0.88		140	0.88		160	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA330			CA330			CA330			CA330			CA330			CA330			CA330		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/12/2002			3/12/2001			3/7/2000			3/15/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.28	0.2		0.25	0.2		0.09	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.92	0.2		0.44	0.2		0.36	0.20		0.10	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	13	0.5		12	0.5		8.9	0.5		6.2	0.50		5.55	0.5		4.88	1		5.77	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1.2	1		<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	66	50		60	2		51	1		55	5.0		57.1	5		44.4	2		53.7	5	
Dissolved Organic Carbon SM 9060A (mg/L)	2	1		2.3	1		1.9	1		2.7	1.0		5.5	5		<	5	U	17.3	5	
Alkalinity SM 2320B (mg/L)	330	8		350	5		430	5		390	5.0		379	5		365	5		445	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	140	0.1		154	0.6		189	1		170	1.0		167	5		161	2.2		196	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-36
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA330-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA330		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.050	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.73	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	41.5	2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.8	5	
Alkalinity SM 2320B (mg/L)	381	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	168	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA331			CA331					CA331					CA331			CA331		
COLLECT DATE	None			None					8/7/2015					8/12/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	0.026	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					8.6	0.038	0.10	0.20		13	0.5		14	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	U	0.401	2	J
Sulfate USEPA 9056A (mg/L)									41	0.23	0.50	5.0		37	5		45.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.4	0.16	0.50	1.0		1.3	1		2.2	1	
Alkalinity SM 2320B (mg/L)									200	1.1	3.2	5.0		190	5		220	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									89	1.1	3.2	5.0		84	5		98	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA331			CA331			CA331			CA331			CA331			CA331			CA331		
COLLECT DATE	2/27/2012			2/28/2011			3/5/2010			3/2/2009			3/3/2008			3/5/2007			3/6/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.048	0.25	J	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	13	0.1		11	0.1		13	0.5		14	0.5		17	0.5		18	0.5		9	0.5	
Sulfide SM 9034 (mg/L)	0.4	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	42	1		40	1		42	5		35	20		43	10		43	10		45	20	
Dissolved Organic Carbon SM 9060A (mg/L)	4.2	1		1.9	1		1.2	1		2.2	1		2.1	1		1.5	1		1.6	1	
Alkalinity SM 2320B (mg/L)	165	1.25		188	1		180	5		190	8		170	2		160	8		180	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	73	1.25		84	0.4		77	2.2		82	0.22		75	0.88		72	0.88		79	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA331			CA331			CA331			CA331			CA331			CA331			CA331		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/12/2002			3/12/2001			3/7/2000			3/15/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.08	0.05		0.12	0.2	J	0.15	0.2	J	<	0.2	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.2	0.2		0.46	0.2		0.27	0.2		0.1	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.8	0.5		17	0.5		15	0.5		13	0.5		12.5	0.5		14.0	1		12.4	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1	1		<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44	20		47	1		43	1		38	1		37.3	5		14.7	2		30.8	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.8	1		<	1.6	U	<	1.2	U	1.8	1		<	5	U	<	5	U	18.2	5	
Alkalinity SM 2320B (mg/L)	190	8		160	5		160	5		140	5		187	5		137	5		161	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.1		70	1.2		70	1		62	1		82.3	5		60.3	2.2		70.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-37
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA331		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	0.032	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.069	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	13.0	2	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	33.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)	6.8	5	
Alkalinity SM 2320B (mg/L)	172	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	75.7	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA332			CA332					CA332					CA332			CA332		
COLLECT DATE	None			None					8/7/2015					8/12/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	0.066	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					10	0.038	0.10	0.20		11	0.5		11.6	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	<	4	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)									46	0.23	0.50	5.0		36	5		44	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.2	0.16	0.50	1.0		1.7	1		2.16	1	
Alkalinity SM 2320B (mg/L)									140	1.1	3.2	5.0		140	5		130	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									62	1.1	3.2	5.0		62	5		58	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA332			CA332			CA332			CA332			CA332			CA332			CA332		
COLLECT DATE	2/27/2012			2/28/2011			3/5/2010			3/2/2009			3/3/2008			3/5/2007			3/6/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.035	0.25	J	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	10	0.1		10	0.1		14	0.5		13	0.5		14	0.5		14	0.5		6.4	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	42	1		42	1		45	5		45	20		50	10		45	10		45	20	
Dissolved Organic Carbon SM 9060A (mg/L)	3.5	1		1.9	1		1	1		2	1		1.8	1		1.4	1		3.7	1	
Alkalinity SM 2320B (mg/L)	146	1.25		142	1		140	5		150	8		140	2		150	8		160	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	65	1.25		63	0.4		63	2.2		66	0.22		62	0.88		67	0.88		70	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA332			CA332			CA332			CA332			CA332			CA332			CA332		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/12/2002			3/12/2001			3/7/2000			3/15/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.2	U	0.12	0.2	J	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.2	0.2		0.32	0.2		0.18	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.6	0.25		11	0.5		11	0.5		7.6	0.50		10.2	0.5		9.48	1		9.29	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.7	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	40	20		50	1		40	1		36	1.0		32.4	5		37.4	5		37.5	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.6	1		<	1.5	U	<	1.2	U	1.7	1.0		<	5	U	<	5	U	14.8	5	
Alkalinity SM 2320B (mg/L)	160	8		140	5		160	5		140	5.0		111	5		119	5		121	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	70	0.1		62	0.9		70	1		62	1.0		48.8	5		52.4	2.2		53.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-38
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA332		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	10.7	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	30.5	2	
Dissolved Organic Carbon SM 9060A (mg/L)	3	5	J
Alkalinity SM 2320B (mg/L)	117	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	51.5	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA342			CA342					CA342					CA342			CA342		
COLLECT DATE	None			None					8/10/2015					8/6/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	0.022	0.1	J	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					12	0.19	0.50	1.0		15	0.1		15.2	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	0.8	4	J	0.401	2	J
Sulfate USEPA 9056A (mg/L)									61	0.23	0.50	5.0		59	5		54.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.7	0.16	0.50	1.0		1.7	1		2.5	1	
Alkalinity SM 2320B (mg/L)									210	1.1	3.2	5.0		240	5		190	1.25	J
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]									93	1.1	3.2	5.0		107	5		84	10	J

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA342			CA342			CA342			CA342			CA342			CA342			CA342		
COLLECT DATE	2/27/2012			3/1/2011			3/5/2010			3/2/2009			3/4/2008			3/5/2007			3/6/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.036	0.25	J	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	12	0.1		12	0.1		14	0.5		18	0.5		19	0.5		19	0.5		16	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.4	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	59	1		65	1		56	25		51	20		45	5		44	10		47	20	
Dissolved Organic Carbon SM 9060A (mg/L)	3.9	1		2.1	1		1.3	1		3.9	1		2.4	1		1.7	1		1.9	1	
Alkalinity SM 2320B (mg/L)	177	1.25		202	1		200	5		220	8		200	2		220	8		210	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	1.25		90	0.4		88	2.2		96	0.22		88	0.88		95	0.88		92	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA342			CA342			CA342			CA342			CA342			CA342			CA342		
COLLECT DATE	3/7/2005			3/8/2004			3/10/2003			3/11/2002			3/12/2001			3/7/2000			3/15/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.18	0.2	J	0.17	0.2	J	0.18	0.20	J	0.209	0.1		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	1.1	0.2		0.23	0.2		<	0.20	U	0.337	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	16	0.5		17	0.5		19	0.5		15	0.50		16.4	0.5		14.1	1		15.4	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	0.6	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44	20		39	1		44	5		53	1.0		45.7	5		58.0	5		72.6	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.8	1		1.8	1		1.8	1		2.2	1.0		<	5	U	<	5	U	15.9	5	
Alkalinity SM 2320B (mg/L)	210	8		210	5		320	5		230	5.0		240	5		241	5		294	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	92	0.1		92	0.5		141	1		100	1.0		106	5		106	2.2		129	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-39
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA342		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	14.7	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	50.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.5	5	
Alkalinity SM 2320B (mg/L)	246	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	108	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA343			CA343					CA343					CA343			CA343		
COLLECT DATE	None			None					8/10/2015					8/6/2014			3/4/2013		
	Result	RL	Qual	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)									<	0.022	0.050	0.10	U	<	0.1	U	<	0.25	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**2019**					1.4	0.19	0.50	1.0		11	0.1		15.5	0.1	
Sulfide SM 9034 (mg/L)									<	0.79	1.9	4.0	U	0.96	4	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)									47	0.23	0.50	5.0		52	5		43.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)									1.5	0.16	0.50	1.0		1.5	1		2.0	1	
Alkalinity SM 2320B (mg/L)									220	1.1	3.2	5.0		210	5		160	1.25	
Methane RSK-175 (µg/L)									<	0.22	0.80	5.0	U	1.6	5	J	14	5	
Carbon Dioxide SM 2320B (mg/L)[1]									98	1.1	3.2	5.0		93	5		71	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA343			CA343			CA343			CA343			CA343			CA343			CA343		
COLLECT DATE	2/27/2012			3/1/2011			3/5/2010			3/3/2009			3/5/2008			3/5/2007			3/6/2006		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	<	0.25	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	18	0.1		13	0.1		13	0.5		14	0.5		15	0.5		15	0.5		14	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44	1		44	1		46	5		40	20		42	5		36	10		43	20	
Dissolved Organic Carbon SM 9060A (mg/L)	3.5	1		2.0	1		1.3	1		3.1	1		2.1	1		1.5	1		1.8	1	
Alkalinity SM 2320B (mg/L)	189	1.25		252	1		240	5		250	8		240	2		260	8		260	8	
Methane RSK-175 (µg/L)	<	5	U	<	5	UJ	0.6	5	J	0.71	0.31		<	1.7	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	1.25		112	0.4		100	2.2		110	0.22		106	0.88		110	0.88		110	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA343			CA343			CA343			CA343			CA343			CA343			CA343		
COLLECT DATE	3/7/2005			3/15/2004			3/10/2003			3/11/2002			3/12/2001			3/6/2000			3/15/1999		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.2	U	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	0.89	0.2		0.42	0.2		<	0.20	U	0.10	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	11	0.5		9.7	1		13	0.5		14	0.50		11.5	0.5		11.7	1		11.5	1	
Sulfide SM 9034 (mg/L)	<	1	U	0.6	1	J	0.9	1	J	<	1.0	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44	20		42	2		45	1		50	1.0		43.6	5		49.4	5		51.2	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.9	1		<	1.6	U	1.7	1		2.3	1.0		7.90	5		<	5	U	16.6	5	
Alkalinity SM 2320B (mg/L)	270	8		250	5		310	5		280	5.0		232	5		269	5		308	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U	0.95	1	J	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	120	0.1		110	0.3		136	1		120	1.0		102	5		118	2.2		136	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.3-40
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA343		
COLLECT DATE	6/9/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.11	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	11.1	1	
Sulfide SM 9034 (mg/L)	<	1	U
Sulfate USEPA 9056A (mg/L)	46.3	2	
Dissolved Organic Carbon SM 9060A (mg/L)	8	5	
Alkalinity SM 2320B (mg/L)	257	5	
Methane RSK-175 (µg/L)	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	113	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

E.2 Natural Attenuation Parameters

E.2.4 OU1 OFF-POST NW WELLS

WELL	TABLE
NW010	E.2.4-1
NW011	E.2.4-2
NW020	E.2.4-3
NW021	E.2.4-4
NW022	E.2.4-5
NW030	E.2.4-6
NW031	E.2.4-7
NW032	E.2.4-8
NW040	E.2.4-9
NW041	E.2.4-10
NW050	E.2.4-11
NW051	E.2.4-12
NW052	E.2.4-13
NW060	E.2.4-14
NW061	E.2.4-15
NW062	E.2.4-16
NW070	E.2.4-17
NW071	E.2.4-18
NW080	E.2.4-19
NW081/NW081R	E.2.4-20
NW082/NW082R	E.2.4-21
NW090	E.2.4-22
NW091	E.2.4-23
NW100	E.2.4-24
NW101	E.2.4-25
NW102	E.2.4-26
NW120	E.2.4-27
NW121	E.2.4-28
NW122	E.2.4-29
NW130/NW130R	E.2.4-30
NW131/NW131R	E.2.4-31
NW132/NW132R	E.2.4-32

TABLE E.2.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW010-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW010			NW010			NW010			NW010			NW010			NW010			NW010			NW010		
COLLECT DATE	None			None			3/15/2006			3/15/2005			3/15/2004			3/17/2003			3/19/2002					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)							<	0.05	U	<	0.05	U	0.16	0.2	J	<	0.2	U	3.5	0.20	J			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	UJ	<	1	UJ	0.74	0.2		<	0.4	UJ	0.57	0.40				
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**			**in 2007**			6.8	0.5		1.1	0.05		9.3	1		8.3	0.5		6.6	0.20				
Sulfide SM 9034 (mg/L)							<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U			
Sulfate USEPA 9056A (mg/L)							28	10		28	10		29	2		33	5		24	1.0				
Dissolved Organic Carbon SM 9060A (mg/L)							1.4	1		1.4	1		<	1.3	U	<	1.3	U	1.9	1.0				
Alkalinity SM 2320B (mg/L)							92	8		100	8		100	5		120	5		83	5.0				
Methane RSK-175 (µg/L)							<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U			
Carbon Dioxide SM 2320B (mg/L)[1]							40	0.88		44	0.1		44	0.7		53	1		37	1.0				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW010-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW010			NW010			NW010			NW010		
COLLECT DATE	3/21/2001			3/14/2000			3/24/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.160	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.87	0.5		5.47	1		6.87	2		7.66	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	0.36	1	J
Sulfate USEPA 9056A (mg/L)	21.7	5		19.8	2		27.3	2		25.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	7.20	5		12.6	5	
Alkalinity SM 2320B (mg/L)	82.5	5		101	5		120	5		124	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	UJ	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	36.3	5		44.4	2.2		52.8	2.2		54.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW011-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW011			NW011			NW011			NW011			NW011			NW011			NW011		
COLLECT DATE	None			None			3/15/2006			3/15/2005			3/15/2004			3/17/2003			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	U	<	1	U	0.92	0.2		<	0.34	U	0.49	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**			**in 2007**			9	0.25		1.1	0.05		4.2	1		4.5	0.1		7.20	1.0	
Sulfide SM 9034 (mg/L)							<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Sulfate USEPA 9056A (mg/L)							39	10		35	10		41	2		45	5		55	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)							1.3	1		2	1		<	1.1	U	<	1.2	U	1.8	1.0	
Alkalinity SM 2320B (mg/L)							150	8		150	8		150	5		150	5		150	5.0	
Methane RSK-175 (µg/L)							<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]							66	0.88		66	0.1		66	0.4		66	1		66	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW011-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW011			NW011			NW011			NW011		
COLLECT DATE	3/21/2001			3/14/2000			3/24/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.036	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.80	0.5		5.60	1		3.15	2		3.00	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	36	5		33.9	2		44.6	2		40.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	9.10	5		6.3	5	
Alkalinity SM 2320B (mg/L)	140	5		156	5		162	5		151	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	UJ	6.01	1	
Carbon Dioxide SM 2320B (mg/L)[1]	61.6	5		68.6	2.2		71.3	2.2		66.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW020					NW020					NW020					NW020				
COLLECT DATE	5/25/2021					6/15/2020					None					8/11/2015				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	UJ	0.022	0.05	0.1	<	U	0.022	0.05	0.1						<	0.022	0.050	0.10	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	59	J	0.48	1.3	2.5	42		0.19	0.5	1	**2019**					32	0.19	0.50	1.0	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4						<	0.79	1.9	4.0	U
Sulfate USEPA 9056A (mg/L)	240		5.2	13	25	230		2.1	6	10						79	1.2	2.5	25	
Dissolved Organic Carbon SM 9060A (mg/L)	6.9	J	0.35	0.8	1	5.9		0.35	1	1						3.2	0.16	0.50	1.0	
Alkalinity SM 2320B (mg/L)	350		3.1	6.4	10	320		3.1	10	10						220	1.1	3.2	5.0	
Methane RSK-175 (µg/L)	<	UJ	0.63	2	5	<	U	0.63	2	5						<	0.22	0.80	5.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	156		3.1	6.4	10	142		3.1	10	10						98	1.1	3.2	5.0	

Notes:

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW020			NW020			NW020			NW020			NW020			NW020			NW020		
COLLECT DATE	8/13/2014			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.056	0.1	J	0.458	0.25		<	0.25	UJ	<	0.25	UJ	0.066	0.1	J	<	0.05	U	0.31	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	26	0.1		7.71	0.1		13	0.1		31	0.1		38	0.5		37	2.5		16	0.5	
Sulfide SM 9034 (mg/L)	<	4	U	<	2	U	0.2	2	J	0.4	2	J	<	4	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	78	5		63.4	1		68	1		66	1		49	5		50	20		50	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.80	1		3.31	1		2.6	1		4.4	1		3.7	1		3.6	1		3	1	
Alkalinity SM 2320B (mg/L)	230	5		330	1.25		230	1.25		245	1		250	5		230	20		210	2	
Methane RSK-175 (µg/L)	<	5	U	12	4.9		<	5	U	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U
Carbon Dioxide SM 2320B (mg/L)[1]	102	5		147	10		102	1.25		109	0.4		110	2.2		100	0.22		92	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW020			NW020			NW020			NW020			NW020			NW020			NW020		
COLLECT DATE	3/19/2007			3/14/2006			3/14/2005			3/15/2004			3/17/2003			3/19/2002			3/21/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	0.12	0.05		<	0.2	U	0.22	0.2		<	0.40	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.2	0.2		<	0.36	U	0.80	0.40		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	29	1		7.4	0.25		16	0.5	J	12	1		12	0.5		14	0.50		17.3	0.5	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U	<	1	U
Sulfate USEPA 9056A (mg/L)	39	20		40	10		48	10		46	2		47	5		48	1.0		47	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.1	1		2.2	1		2.9	1		2.9	1		2.9	1		4.0	1.0		<	5	U
Alkalinity SM 2320B (mg/L)	200	8		210	8		250	8		260	5		250	5		290	5.0		258	5	
Methane RSK-175 (µg/L)	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	90	0.88		92	0.88		110	0.1		114	0.4		110	1		130	1.0		114	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW020			NW020			NW020		
COLLECT DATE	3/14/2000			3/25/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	18.0	1		10.7	2	UJ	21.7	4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	43.4	2		46.1	2	J	45.6	0.2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.50	5		9.00	5	J	8.4	5	
Alkalinity SM 2320B (mg/L)	290	5		282	5	J	291	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	127	2.2		124	2.2	J	99.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW021					NW021					NW021					NW021				
COLLECT DATE	5/25/2021					6/15/2020					None					8/11/2015				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.5		0.022	0.05	0.1	1.4		0.022	0.05	0.1						<	0.022	0.050	0.10	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.7		0.69	1	1	1.8		0.69	1	1	**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.87		0.019	0.05	0.1	1.5		0.019	0.05	0.1	**2019**					2.8	0.019	0.050	0.10	
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4						<	0.79	1.9	4.0	U
Sulfate USEPA 9056A (mg/L)	200		5.2	13	25	220		2.1	6	10						170	0.23	0.50	5.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3		0.35	0.8	1	2.8		0.35	1	1						2.4	0.16	0.50	1.0	
Alkalinity SM 2320B (mg/L)	340		3.1	6.4	10	340		3.1	10	10						300	1.1	3.2	5.0	
Methane RSK-175 (µg/L)	34		0.63	2	5	6		0.63	2	5						43	0.22	0.80	5.0	
Carbon Dioxide SM 2320B (mg/L)[1]	151		3.1	6.4	10	151		3.1	10	10						133	1.1	3.2	5.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW021			NW021			NW021			NW021			NW021			NW021			NW021		
COLLECT DATE	8/13/2014			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.586	0.25		<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U	0.4	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.2	0.1		1.1	0.1		1.2	0.1		2.2	0.1		4.7	0.1		4.1	0.5		3.9	0.5	
Sulfide SM 9034 (mg/L)	<	4	U	0.2	2	J	0.2	2	J	0.4	2	J	<	4	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	140	5		135	10		144	5		30	1		98	25		92	20		80	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.2	1	J	2.2	1		<	1	U	2.8	1		1.9	1		1.7	1		2.1	1	
Alkalinity SM 2320B (mg/L)	280	5		470	1.25		295	1.25		305	1		260	5		260	20		240	2	
Methane RSK-175 (µg/L)	480	5		450	4.9		200	5		23	5	J	<	5	U	0.32	0.31		<	1.7	U
Carbon Dioxide SM 2320B (mg/L)[1]	124	5		209	10		131	1.25		136	0.4		120	2.2		110	0.22		106	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW021			NW021			NW021			NW021			NW021			NW021			NW021		
COLLECT DATE	3/9/2007			3/14/2006			3/14/2005			3/15/2004			3/17/2003			3/19/2002			3/21/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.5	U	<	0.2	U	<	0.2	U	4.6	0.4	J	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.3	1		<	0.35	U	<	0.46	U	0.50	0.40		<	0.1	UJ
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.7	1		0.87	0.05		2.8	0.1		1.2	0.1		1.9	0.1		2.81	0.10		2.12	0.5	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.1	1.0		<	1	U
Sulfate USEPA 9056A (mg/L)	69	10		58	10		51	10		50	2		52	5		45	5.0		49	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.7	1		1.8	1		1.8	1		<	1.8	U	1.8	1		2.7	1.0		<	5	U
Alkalinity SM 2320B (mg/L)	250	8		240	8		240	8		220	5		220	5		240	5.0		208	5	
Methane RSK-175 (µg/L)	0.76	0.87	J	0.44	0.87	J	0.76	0.87	J	<	2	U	<	2	U	<	2.0	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.88		100	0.88		100	0.1		97	0.4		97	1		110	1.0	J	91.5	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW021			NW021			NW021		
COLLECT DATE	3/14/2000			3/25/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.470	0.1	J	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.575	1		1.44	1		2.54	4	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	48.1	2		52	2	J	46.1	2	
Dissolved Organic Carbon SM 9060A (mg/L)	6.50	5		<	5	UJ	3.9	5	J
Alkalinity SM 2320B (mg/L)	219	5		234	5		225	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	96.4	2.2		103	2.2		99.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW022					NW022					NW022					NW022				
COLLECT DATE	5/25/2021					6/15/2020					None					8/11/2015				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	1.4	J	0.022	0.05	0.1	1.4		0.022	0.05	0.1						0.033	0.022	0.050	0.10	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.4		0.69	1	1	1.7		0.69	1	1	**No Analysis in 2016, 2017, 2018,**					<	0.18	0.50	1.0	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	UJ	0.019	0.05	0.1	<	U	0.019	0.05	0.1	**2019**					<	0.019	0.050	0.10	U
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4						<	0.79	1.9	4.0	U
Sulfate USEPA 9056A (mg/L)	250		5.2	13	25	290		2.1	6	10						240	1.2	2.5	25	
Dissolved Organic Carbon SM 9060A (mg/L)	3.4	J	0.35	0.8	1	2.6		0.35	1	1						2.4	0.16	0.50	1.0	
Alkalinity SM 2320B (mg/L)	430		3.1	6.4	10	400		3.1	10	10						340	1.1	3.2	5.0	
Methane RSK-175 (µg/L)	430	J	0.63	2	5	440		0.63	2	5						370	0.22	0.80	5.0	
Carbon Dioxide SM 2320B (mg/L)[1]	191		3.1	6.4	10	178		3.1	10	10						151	1.1	3.2	5.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW022			NW022			NW022			NW022			NW022			NW022			NW022		
COLLECT DATE	8/14/2014			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.061	0.1	J	0.77	0.25		<	0.25	UJ	<	0.25	UJ	0.024	0.1	J	<	0.05	U	0.26	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	2.8	1		<	1	UJ	0.2	1	J	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	UJ	<	0.1	UJ	<	0.1	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	0.96	4	J	0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	220	25		212	10		197	5		38	1		140	25		110	20		92	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.90	1		2.55	1		<	1	U	2.5	1		1.4	1		1.4	1		1.8	1	
Alkalinity SM 2320B (mg/L)	360	5		490	1.25		305	1.25		345	1		300	5		260	20		260	2	
Methane RSK-175 (µg/L)	320	5		140	4.9		16	5		<	5	UJ	0.61	5	J	0.73	0.31		<	1.7	U
Carbon Dioxide SM 2320B (mg/L)[1]	160	5		218	10		136	1.25		153	0.4		130	2.2		120	0.22		114	0.88	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW022			NW022			NW022			NW022			NW022			NW022			NW022		
COLLECT DATE	3/9/2007			3/14/2006			3/14/2005			3/15/2004			3/17/2003			3/19/2002			3/21/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	<	0.4	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.4	1		0.2	0.2		0.48	0.2		0.47	0.40		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	UJ	<	0.05	U	<	0.1	UJ	<	0.1	U	<	0.10	U	<	0.5	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.2	1.0		<	1	U
Sulfate USEPA 9056A (mg/L)	67	20		60	10		52	10		50	2		50	5		50	1.0		46	5	
Dissolved Organic Carbon SM 9060A (mg/L)	1.5	1		22	1		1.4	1		<	1.3	U	<	1.4	U	2.1	1.0		<	5	U
Alkalinity SM 2320B (mg/L)	270	8		240	8		250	8		240	5		230	5		240	5.0		218	5	
Methane RSK-175 (µg/L)	<	0.87	U	1.1	0.87		1.7	0.87		<	2	U	<	2	U	<	2.0	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	120	0.88		110	0.88		110	0.1		106	0.2		101	1		110	1.0		95.9	5	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW022			NW022			NW022		
COLLECT DATE	3/14/2000			3/25/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.406	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	41.6	2		44	2		37.8	2	
Dissolved Organic Carbon SM 9060A (mg/L)	5.90	5		11.4	5	J	3.0	5	J
Alkalinity SM 2320B (mg/L)	227	5		220	5		233	5	
Methane RSK-175 (µg/L)	0.64	1	J	<	1	U	<	1.32	U
Carbon Dioxide SM 2320B (mg/L)[1]	100	2.2		96.8	2.2		103	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW030			NW030			NW030			NW030			NW030			NW030			NW030			NW030		
COLLECT DATE	None			None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)							0.207	0.25	J	<	0.25	UJ	<	0.25	UJ	0.027	0.1	J	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	U	<	1	U	<	1	U	<	1	U	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2017**			**in 2014, 2015, 2016,**			22.2	0.1		27	0.1		20	0.1		22	0.5		17	0.5				
Sulfide SM 9034 (mg/L)				**2017**			0.401	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U			
Sulfate USEPA 9056A (mg/L)							67.9	1		67	1		66	1		55	25		68	20				
Dissolved Organic Carbon SM 9060A (mg/L)							2.23	1		<	1	U	2.5	1		1.6	1		1.9	1				
Alkalinity SM 2320B (mg/L)							185	1.25		180	1.25		175	1		210	5		190	20				
Methane RSK-175 (µg/L)							2	4.9	J	<	5	U	<	5	UJ	<	5	U	0.28	0.31	J			
Carbon Dioxide SM 2320B (mg/L)[1]							82	10		80	1.25		78	0.4		93	2.2		84	0.22				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW030			NW030			NW030			NW030			NW030			NW030			NW030		
COLLECT DATE	3/10/2008			3/19/2007			3/14/2006			3/14/2005			3/12/2004			3/17/2003			3/19/2002		
	.	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.12	0.05		<	0.05	U	<	0.05	U	<	0.05	U	<	0.2	U	<	0.2	U	1.4	0.40	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1	1		1.1	0.2		<	0.33	U	0.55	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	16	0.5		19	1		10	0.25		20	0.5		16	1	J	17	0.5		16	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.1	1.0	
Sulfate USEPA 9056A (mg/L)	74	10		55	10		42	10		42	10		34	2		27	5		22	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.9	1		2	1		1.7	1		1.9	1		1.8	1		<	1.5	U	2.2	1.0	
Alkalinity SM 2320B (mg/L)	170	2		180	8		170	8		180	8		160	5		160	5		170	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	75	0.88		77	0.88		75	0.88		79	0.1		70	0.4		70	1		75	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW030			NW030			NW030			NW030		
COLLECT DATE	3/21/2001			3/14/2000			3/25/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	1.3	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.112	0.1		<	0.1	U	1.24	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	15.6	0.5		12.7	1		12.3	2		9.81	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	27.6	5		31.3	2		32.4	2		42.6	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	<	5	U	9.5	5	
Alkalinity SM 2320B (mg/L)	145	5		154	5		162	5		115	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	274	10	
Carbon Dioxide SM 2320B (mg/L)[1]	63.8	5		67.8	2.2		71.3	2.2		50.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW031			NW031			NW031			NW031			NW031			NW031			NW031			NW031		
COLLECT DATE	None			None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)							0.466	0.25		<	0.25	U	<	0.25	UJ	0.026	0.1	J	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.16	1		<	1	UJ	<	1	UJ	0.27	1	J	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2017**			**in 2014, 2015, 2016,**			0.819	0.1		0.192	0.1		0.567	0.1		0.44	0.1		0.26	0.05				
Sulfide SM 9034 (mg/L)				**2017**			0.2	2	J	1.2	2	J	0.2	2	J	<	4	U	<	1	U			
Sulfate USEPA 9056A (mg/L)							237	10		240	10		252	10		210	25		210	20				
Dissolved Organic Carbon SM 9060A (mg/L)							2.44	1		2.9	1		2.7	1		1.9	1		2.9	1				
Alkalinity SM 2320B (mg/L)							287	1.25		340	1.25		335	1		320	5		310	20				
Methane RSK-175 (µg/L)							2	4.9	J	0.78	5	J	<	5	UJ	1.3	5	J	1.3	0.31				
Carbon Dioxide SM 2320B (mg/L)[1]							128	10		151	1.25		149	0.4		140	2.2		140	0.22				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW031			NW031			NW031			NW031			NW031			NW031			NW031		
COLLECT DATE	3/10/2008			3/12/2007			3/14/2006			3/14/2005			3/12/2004			3/17/2003			3/19/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.18	0.05		<	0.05	U	<	0.05	U	<	0.05	U	0.14	0.2	J	0.17	0.2	J	<	0.40	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.2	1		<	0.27	U	0.28	0.2		0.51	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	3.8	0.5		0.17	0.05	J	0.14	0.05		<	0.05	U	0.38	0.1	J	0.49	0.1		0.18	0.10	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.1	1.0	
Sulfate USEPA 9056A (mg/L)	190	20		150	20		130	10		110	10		93	2		92	5		78	5.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.9	1		2.1	1		2.2	1		2	1		2.1	1		1.9	1		2.6	1.0	
Alkalinity SM 2320B (mg/L)	300	2		330	8		280	8		290	8		270	5		280	5		280	5.0	
Methane RSK-175 (µg/L)	0.9	1.7	J	1.2	0.87		0.73	0.87	J	0.67	0.87	J	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	132	0.88		140	0.88		120	0.88		130	0.1		119	0.1		123	1		120	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-7
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW031			NW031			NW031			NW031		
COLLECT DATE	3/21/2001			3/14/2000			3/25/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.125	0.1		0.198	0.1		<	0.1	U	0.17	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.5	U	<	1	U	<	1	U	0.17	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	67.3	5		57.0	2		55.3	2		48.7	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	<	5	U	5.3	5	
Alkalinity SM 2320B (mg/L)	240	5		255	5		294	5		278	5	
Methane RSK-175 (µg/L)	<	1	U	0.43	1	J	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	106	5		112	2.2		129	2.2		122	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW032			NW032			NW032			NW032			NW032			NW032			NW032			NW032		
COLLECT DATE	None			None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)							0.29	0.25		<	0.25	UJ	<	0.25	UJ	0.083	0.1	J	<	0.05	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.06	1		<	1	U	<	1	UJ	0.19	1	J	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2017**			**in 2014, 2015, 2016,**			<	0.1	U	<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.05	U			
Sulfide SM 9034 (mg/L)				**2017**			<	2	U	0.2	2	J	0.2	2	J	<	4	U	<	1	U			
Sulfate USEPA 9056A (mg/L)							249	10		243	10		248	10		200	25		160	20				
Dissolved Organic Carbon SM 9060A (mg/L)							2.27	1		<	1	U	2.6	1		1.8	1		2.8	1				
Alkalinity SM 2320B (mg/L)							292	1.25		310	1.25		345	1		300	5		270	20				
Methane RSK-175 (µg/L)							3	4.9	J	0.91	5	J	<	5	UJ	2.1	5	J	1.4	0.31				
Carbon Dioxide SM 2320B (mg/L)[1]							130	10		138	1.25		153	0.4		130	2.2		120	0.22				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW032			NW032			NW032			NW032			NW032			NW032			NW032		
COLLECT DATE	3/10/2008			3/12/2007			3/14/2006			3/14/2005			3/12/2004			3/17/2003			3/18/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.25	0.05		0.33	0.05		<	0.05	U	<	0.05	U	0.14	0.2	J	<	0.2	U	<	0.40	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.1	1		<	1	U	<	1	U	1.2	1		<	0.32	U	0.23	0.2		0.42	0.40	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.096	0.1	J	<	0.1	U	<	0.10	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.00	U	0.80	1.0	J
Sulfate USEPA 9056A (mg/L)	200	10		140	20		130	10		93	10		85	2		74	5		67	5.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		1.8	1		1.9	1		1.7	1		1.8	1		<	1.5	U	2.6	1.0	
Alkalinity SM 2320B (mg/L)	300	2		300	8		280	8		280	8		260	5		260	5		280	5.0	
Methane RSK-175 (µg/L)	1	1.7	J	1.8	0.87		1.4	0.87		0.94	0.87		<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	132	0.88		130	0.88		120	0.88		120	0.1		114	0.1		114	1		120	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-8
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW032-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW032			NW032			NW032			NW032		
COLLECT DATE	3/21/2001			3/14/2000			3/25/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.052	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.15	0.1		0.294	0.1		<	0.1	U	0.31	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	70.4	5		60.4	2		63.6	2		56.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	<	5	U	5.9	5	
Alkalinity SM 2320B (mg/L)	260	5		265	5		256	5		257	5	
Methane RSK-175 (µg/L)	<	1	U	0.88	1	J	<	1.37	U	<	1.4	U
Carbon Dioxide SM 2320B (mg/L)[1]	114	5		117	2.2		113	2.2		113	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW040-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW040			NW040			NW040			NW040			NW040			NW040			NW040		
COLLECT DATE	None			None			None			None			None			3/14/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)																0.24	0.2		<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			2.1	0.2		0.28	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**						**Well Dry**			**Well Dry**			**Well Dry**			14	0.5	J	20	1.0	
Sulfide SM 9034 (mg/L)																1.9	1		1.1	1.0	
Sulfate USEPA 9056A (mg/L)																21	5		30	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)																9.3	1.0		2.8	1.0	
Alkalinity SM 2320B (mg/L)																42	5		22	5.0	
Methane RSK-175 (µg/L)																<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]																18	1		9.7	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-9
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW040-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW040			NW040			NW040			NW040		
COLLECT DATE	3/13/2001			3/14/2000			3/23/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.039	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.413	0.1		0.278	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	24.6	1		38.1	10		20.3	2		8.69	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	32.5	5		37.4	2		27	2		15.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	6.80	5		11.6	5		5.6	5	
Alkalinity SM 2320B (mg/L)	32.3	5		40.3	5		35	5		32.1	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1.23	U	1.23	1	
Carbon Dioxide SM 2320B (mg/L)[1]	14.2	5		17.7	2.2		15.4	2.2		14.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW041-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW041			NW041			NW041			NW041			NW041			NW041			NW041			NW041		
COLLECT DATE	None			None			3/13/2006			3/11/2005			3/12/2004			3/14/2003			3/14/2002					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)							0.081	0.05		<	0.05	U	0.14	0.2	J	<	0.2	U	<	0.20	U			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**No 2007 Sample**			<	1	U	<	1	U	1.5	0.2		0.41	0.20		0.41	0.20				
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2008**						25	1		10	0.25		15	1	J	10	0.5	J	15	0.50				
Sulfide SM 9034 (mg/L)							<	1	U	<	1	U	<	1	U	2.2	1		1.6	1.0				
Sulfate USEPA 9056A (mg/L)							63	10		45	10		54	2		48	5		50	1.0				
Dissolved Organic Carbon SM 9060A (mg/L)							3.5	1		1.6	1		2.8	1		<	1.6	U	2.8	1.0				
Alkalinity SM 2320B (mg/L)							140	8		150	8		150	5		170	5		170	5.0				
Methane RSK-175 (µg/L)							<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U			
Carbon Dioxide SM 2320B (mg/L)[1]							60	0.88		66	0.1		66	0.3		75	1		75	1.0				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-10
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW041-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW041			NW041			NW041			NW041		
COLLECT DATE	3/13/2001			3/14/2000			3/23/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.100	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.09	0.5		5.76	1		12.8	2		6.15	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44.2	5		41.2	2		40	2		36.8	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	7.20	5		5.2	5	
Alkalinity SM 2320B (mg/L)	157	5		169	5		168	5		166	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	69.1	5		74.4	2.2		73.9	2.2		73.0	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW050					NW050					NW050			NW050			NW050		
COLLECT DATE	None					6/10/2020					None			3/7/2013			3/1/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)						0.98		0.022	0.05	0.1				1.93	0.25		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				<	U	0.69	1	1	**Not Sampled**			0.136	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				78		0.48	1.3	2.5	**in 2014, 2015, 2016,**			2	0.1		38	0.1	
Sulfide SM 9034 (mg/L)						<	U	0.79	1.9	4	**2017, 2018, 2019**			<	2	U	0.2	2	J
Sulfate USEPA 9056A (mg/L)						200		5.2	15	25				48	1		43	1	
Dissolved Organic Carbon SM 9060A (mg/L)						6.5		0.35	1	1				5.8	1		3.2	1	
Alkalinity SM 2320B (mg/L)						220		3.1	10	10				102	1.25		128	1.25	
Methane RSK-175 (µg/L)						<	U	0.63	2	5				<	5	U	<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]						98		3.1	10	10				45	10		57	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW050			NW050			NW050			NW050			NW050			NW050			NW050		
COLLECT DATE	3/7/2011			3/11/2010			3/5/2009			3/11/2008			3/9/2007			3/13/2006			3/11/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.078	0.1	J	<	0.05	U	0.19	0.05		<	0.05	U	0.22	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	40	0.1		37	0.5		24	0.5		61	2.5		82	2.5		16	0.5		96	2.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44	1		50	25		67	20		120	10		99	20		54	10		93	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.4	1		2.5	1		3.5	1		4.3	1		3.5	1		3.5	1		5.4	1	
Alkalinity SM 2320B (mg/L)	195	1		270	5		380	8		310	2		170	8		120	8		90	8	
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	0.84	0.87	J	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	87	0.4		120	2.2		170	0.22		136	0.88		74	0.88		53	0.88		40	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-11
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW050			NW050			NW050			NW050			NW050			NW050			NW050		
COLLECT DATE	3/11/2004			3/17/2003			3/18/2002			3/20/2001			3/14/2000			3/23/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.35	0.2		<	0.27	U	<	0.24	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2.8	0.2		<	0.2	U	1.0	0.40		0.238	0.1		0.159	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	81	5	J	110	5		72	2.0		69.6	0.5		70.4	10		94.5	10		98.2	10	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	100	10		95	5		120	4.0		105	5		98.2	2		85.6	2		82.8	2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.5	1		4.6	1.0		6.3	1.0		6.30	5		5.20	5		12.2	5		8.7	5	
Alkalinity SM 2320B (mg/L)	100	5		82	5		190	5.0		156	5		162	5		142	5		137	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	44	0.5		36	1		84	1.0		68.6	5		71.3	2.2		62.5	2.2		60.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW051					NW051					NW051			NW051			NW051		
COLLECT DATE	None					6/10/2020					None			3/7/2013			3/1/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)						<	U	0.022	0.05	0.1				1.3	0.25		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				<	U	0.69	1	1	**Not Sampled**			1.48	1		1.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				24		0.095	0.25	0.5	**in 2014, 2015, 2016,**			1.46	0.1		23	0.1	
Sulfide SM 9034 (mg/L)						<	U	0.79	1.9	4	**2017, 2018, 2019**			<	2	U	0.6	2	J
Sulfate USEPA 9056A (mg/L)						190		1	3	5				144	10		123	5	
Dissolved Organic Carbon SM 9060A (mg/L)						9.2		0.35	1	1				10.1	1		6.8	1	
Alkalinity SM 2320B (mg/L)						330		3.1	10	10				320	1.25		308	1.25	
Methane RSK-175 (µg/L)						2	J	0.63	2	5				<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]						147		3.1	10	10				142	10		137	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW051			NW051			NW051			NW051			NW051			NW051			NW051		
COLLECT DATE	3/7/2011			3/11/2010			3/5/2009			3/11/2008			3/9/2007			3/13/2006			3/11/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.1	0.1		<	0.05	U	0.24	0.05		<	0.05	U	0.13	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.3	1		<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	15	0.1		24	0.5		35	1		28	1		23	1		9.1	0.5		12	0.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	133	5		140	25		110	20		130	10		90	20		77	10		86	10	
Dissolved Organic Carbon SM 9060A (mg/L)	8.6	1		9.8	1		8.2	1		12	1		9.8	1		8.3	1		9.3	1	
Alkalinity SM 2320B (mg/L)	305	1		320	5		280	8		310	2		320	8		290	8		280	8	
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U	<	0.87	U	1.4	0.87		<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	136	0.4		140	2.2		130	0.22		136	0.88		140	0.88		130	0.88		120	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-12
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW051			NW051			NW051			NW051			NW051			NW051			NW051		
COLLECT DATE	3/12/2004			3/17/2003			3/18/2002			3/20/2001			3/14/2000			3/23/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.35	0.2		0.19	0.2	J	<	0.40	U	<	0.1	U	<	0.1	U	<	0.1	U	0.035	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.8	0.2		0.53	0.2		1.6	0.40		<	0.1	UJ	0.132	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	33	1	J	19	0.5		32	1.0		22.3	0.5		32.2	2		28.8	2		30.5	4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	1	1.0		<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	92	2		77	5		110	5.0		130	5		90.3	2		116	5		93.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)	10	1		7.0	1.0		7.7	1.0		6.40	5		5.00	5		8.20	5		8.1	5	
Alkalinity SM 2320B (mg/L)	240	5		250	5		250	5.0		238	5		237	5		232	5		222	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	106	0.6		110	1		110	1.0		105	5		104	2.2		102	2.2		97.7	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW052					NW052					NW052			NW052			NW052		
COLLECT DATE	None					6/10/2020					None			3/7/2013			3/1/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)						0.031	J	0.022	0.05	0.1				1.93	0.25		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				1		0.69	1	1	**Not Sampled**			0.136	1	J	3.0	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				0.052	J	0.019	0.05	0.1	**in 2014, 2015, 2016,**			1.79	0.1		<	0.1	U
Sulfide SM 9034 (mg/L)						<	U	0.79	1.9	4	**2017, 2018, 2019**			<	2	U	0.4	2	J
Sulfate USEPA 9056A (mg/L)						140		5.2	15	25				48.2	1		117	5	
Dissolved Organic Carbon SM 9060A (mg/L)						6.6		0.35	1	1				5.8	1		8.2	1	
Alkalinity SM 2320B (mg/L)						320		3.1	10	10				102	1.25		328	1.25	
Methane RSK-175 (µg/L)						450		0.63	2	5				<	5	U	12	5	
Carbon Dioxide SM 2320B (mg/L)[1]						142		3.1	10	10				45	10		146	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW052			NW052			NW052			NW052			NW052			NW052			NW052		
COLLECT DATE	3/7/2011			3/11/2010			3/5/2009			3/11/2008			3/9/2007			3/13/2006			3/11/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	U	0.1	0.1		0.071	0.05		0.095	0.05		0.084	0.05		<	0.05	U	0.05	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.5	1		1.6	1		2	1		1.9	1		1.5	1		1.8	1		1.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Sulfide SM 9034 (mg/L)	0.4	2	J	<	4	U	<	1	U	<	1	U	6	1		<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	146	5		64	25		40	20		39	10		35	20		40	10		38	10	
Dissolved Organic Carbon SM 9060A (mg/L)	12	1		13	1		11	1		13	1		11	1		10	1		8.8	1	
Alkalinity SM 2320B (mg/L)	435	1		430	5		470	8		400	2		390	8		360	8		370	8	
Methane RSK-175 (µg/L)	15	5		110	5		160	0.31		190	1.7		390	0.87		240	0.87		270	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]	193	0.4		190	2.2		210	0.22		176	0.88		170	0.88		160	0.88		160	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-13
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW052			NW052			NW052			NW052			NW052			NW052			NW052		
COLLECT DATE	3/11/2004			3/17/2003			3/18/2002			3/20/2001			3/14/2000			3/23/1999			6/16/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.26	0.2		<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.55	U	0.66	0.2		0.67	0.40		0.513	0.1		0.895	0.1		<	0.1	U	0.225	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	UJ	<	0.1	U	0.384	0.10		<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	50	2		55	5		79	5.0		109	5		85.4	2		123	5		89.7	2	
Dissolved Organic Carbon SM 9060A (mg/L)	7.2	1		4.7	1.0		4.5	1.0		5.10	5		5.40	5		10.9	5		10.7	5	
Alkalinity SM 2320B (mg/L)	300	5		270	5		290	5.0		268	5		278	5		266	5		268	5	
Methane RSK-175 (µg/L)	120	2		39	2		14	2.0		12	1		32	2		29.7	5		28.4	1	
Carbon Dioxide SM 2320B (mg/L)[1]	132	0.9		119	1		130	1.0		118			122	2.2		117	2.2		118	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW060					NW060					NW060			NW060			NW060		
COLLECT DATE	5/19/2021					6/10/2020					None			3/7/2013			3/2/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1				1.64	0.25		<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	U	0.69	1	1	**Not Sampled**			0.991	1	J	2.4	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.4		0.019	0.05	0.1	2.4		0.019	0.05	0.1	**in 2014, 2015, 2016,**			2.87	0.1		10	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			0.2	2	J	0.4	2	J
Sulfate USEPA 9056A (mg/L)	9.4	J	2.1	5	10	5.2		1	3	5				19.4	1		15	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6		0.35	0.8	1	0.96	J	0.35	1	1				2.51	1		<	1	U
Alkalinity SM 2320B (mg/L)	36		3.1	6.4	10	28		3.1	10	10				76	1.25		38	1.25	
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5				<	5	U	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	16		3.1	6.4	10	12		3.1	10	10				34	10		17	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW060			NW060			NW060			NW060			NW060			NW060			NW060		
COLLECT DATE	3/4/2011			3/10/2010			3/6/2009			3/6/2008			None			None			None		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.082	0.1	J	<	0.05	U	0.43	0.05										
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**		
Nitrate/Nitrite USEPA 353.2 (mg/L)	5.6	0.1		4.4	0.1		6.7	0.25		2.6	0.5		**Well Dry**			**Well Dry**			**Well Dry**		
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U									
Sulfate USEPA 9056A (mg/L)	11	1		15	5		18	2		29	10										
Dissolved Organic Carbon SM 9060A (mg/L)	2.0	1		1.4	1		2.6	1		2.8	1										
Alkalinity SM 2320B (mg/L)	33	1		39	5		55	8		48	2										
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	<	0.31	U	<	1.7	U									
Carbon Dioxide SM 2320B (mg/L)[1]	14	0.4		17	2.2		24	0.22		21	0.88										

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-14
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW060-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW060			NW060			NW060			NW060			NW060			NW060			NW060		
COLLECT DATE	None			3/14/2003			3/18/2002			3/20/2001			3/10/2000			3/23/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				0.31	0.2		<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**No 2004 Sample**			2.6	0.2		0.56	0.40		0.125	0.1		<	0.1	U	<	0.1	U	0.042	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			12	0.5	J	13	1.0		12.3	0.5		20.5	1		14.2	1		25.5	1	
Sulfide SM 9034 (mg/L)				2.7	1		<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				25	5		31	2.0		28	5		28.2	2		39.5	5		33.3	1	
Dissolved Organic Carbon SM 9060A (mg/L)				1.8	1		2.6	1.0		<	5	U	<	5	U	12.1	5		6.9	5	
Alkalinity SM 2320B (mg/L)				84	5		61	5.0		55.2	5		45.2	5		45	5		39.7	5	
Methane RSK-175 (µg/L)				<	2	U	<	2.0	U	<	1	U	<	1	U	127	10		1.43	1	
Carbon Dioxide SM 2320B (mg/L)[1]				37	1		27	1.0		24.3	5		19.9	2.2		19.8	2.2		17.5	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW061					NW061					NW061			NW061			NW061		
COLLECT DATE	5/19/2021					6/10/2020					None			3/12/2013			3/2/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	2.4		0.022	0.05	0.1	4.5		0.022	0.05	0.1				2.44	0.25		1.9	0.25	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.8		0.69	1	1	2.5		0.69	1	1	**Not Sampled**			5.8	1		5.6	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	9.8		0.019	0.05	0.1	5.7		0.019	0.05	0.1	**in 2014, 2015, 2016,**			0.992	0.1		1.4	0.1	J
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			0.2	2	J	0.4	2	J
Sulfate USEPA 9056A (mg/L)	150		1	2.5	5	170		1	3	5				78.1	1		71	1	
Dissolved Organic Carbon SM 9060A (mg/L)	4.7		0.35	0.8	1	4.1		0.35	1	1				6.28	1		5.3	1	
Alkalinity SM 2320B (mg/L)	290		3.1	6.4	10	270		3.1	10	10				275	1.25		248	1.25	
Methane RSK-175 (µg/L)	28		0.63	2	5	19		0.63	2	5				59	5		25	5	
Carbon Dioxide SM 2320B (mg/L)[1]	129		3.1	6.4	10	120		3.1	10	10				122	10		110	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW061			NW061			NW061			NW061			NW061			NW061			NW061		
COLLECT DATE	3/4/2011			3/11/2010			3/6/2009			3/6/2008			3/8/2007			3/13/2006			3/14/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	1.6	0.25	J	0.91	0.1	J	0.78	0.05		1.2	0.05		0.69	0.05		0.77	0.05		0.34	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.9	1		1.3	1		1	1	J	2.1	1	J	1.2	1	J	1.5	1		2	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	4.9	0.1		2.6	0.1		2.6	0.25		0.11	0.05		<	0.05	U	<	0.05	UJ	0.55	0.05	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	UJ	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	67	1		61	25		59	20	J	51	10		39	20	J	44	10		43	10	
Dissolved Organic Carbon SM 9060A (mg/L)	4.6	1	J	3.2	1		3.5	1		3.7	1		3.9	1		4.9	1	J	6	1	
Alkalinity SM 2320B (mg/L)	228	1		250	5		260	8		240	2		260	8		270	8		290	8	
Methane RSK-175 (µg/L)	9	5		8.4	5		4.5	0.31		11	1.7		4	0.87		5.9	0.87		11	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]	101	0.4		110	2.2		110	0.22		106	0.88		110	0.88		120	0.88		130	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-15
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW061			NW061			NW061			NW061			NW061			NW061			NW061		
COLLECT DATE	3/11/2004			3/14/2003			3/18/2002			3/20/2001			3/10/2000			3/23/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.41	0.2		0.33	0.2		<	0.20	U	0.248	0.1		<	0.1	U	0.251	0.1		0.16	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.78	U	0.8	0.2		2.0	0.40		1.28	0.1		<	0.1	U	1.53	0.1		1.27	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	0.1	U	<	0.10	U	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	2.3	1		<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	41	2		44	5		32	4.0		27.4	5		20.8	2		30.3	5		33.1	1	
Dissolved Organic Carbon SM 9060A (mg/L)	6.8	1		6.2	1.0		8.2	1.0		5.10	5		18.5	5		23.8	5		19.1	5	
Alkalinity SM 2320B (mg/L)	270	5		280	5		300	5.0		324	5		374	5		383	5		353	5	
Methane RSK-175 (µg/L)	7.1	2		<	2	U	<	2.0	U	16	1		23	1		158	10		127	10	
Carbon Dioxide SM 2320B (mg/L)[1]	119	0.3		123	1		130	1.0		143	5		165	2.2		169	2.2		155	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW062					NW062					NW062			NW062			NW062		
COLLECT DATE	5/19/2021					6/10/2020					None			3/7/2013			3/2/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	1		0.022	0.05	0.1	0.91		0.022	0.05	0.1				1.36	0.25	J	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	1.5		0.69	1	1	**Not Sampled**			0.58	1	J	3.6	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.053	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	**in 2014, 2015, 2016,**			0.196	0.1	J	<	0.1	U
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			0.802	2	J	0.4	2	J
Sulfate USEPA 9056A (mg/L)	190		2.1	5	10	190		1	3	5				75.7	1		67	1	
Dissolved Organic Carbon SM 9060A (mg/L)	2.9		0.35	0.8	1	2.3		0.35	1	1				2.83	1		2.0	1	
Alkalinity SM 2320B (mg/L)	270		3.1	6.4	10	240		3.1	10	10				241	1.25		222	1.25	
Methane RSK-175 (µg/L)	8		0.63	2	5	21		0.63	2	5				13	5		17	5	
Carbon Dioxide SM 2320B (mg/L)[1]	120		3.1	6.4	10	107		3.1	10	10				107	10		99	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW062			NW062			NW062			NW062			NW062			NW062			NW062		
COLLECT DATE	3/4/2011			3/11/2010			3/6/2009			3/7/2008			3/9/2007			3/13/2006			3/14/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	0.089	0.1	J	<	0.05	U	0.25	0.05		0.066	0.05		0.073	0.05		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.517	1	J	<	1	U	<	1	U	<	1	U	<	1	U	1	1		1.9	1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	UJ	<	0.1	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.3	0.05	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	61	1		50	25		46	20		49	10		40	20		44	10		43	10	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		1.7	1		2.5	1		2.9	1		3.7	1		5	1		6.4	1	
Alkalinity SM 2320B (mg/L)	248	1		240	5		250	8		220	2		240	8		240	8		270	8	
Methane RSK-175 (µg/L)	24	5		60	5		5.1	0.31		44	1.7		190	0.87		190	0.87		350	0.87	
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.4		110	2.2		110	0.22		97	0.88		100	0.88		110	0.88		120	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-16
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW062			NW062			NW062			NW062			NW062			NW062			NW062		
COLLECT DATE	3/11/2004			3/14/2003			3/18/2002			3/20/2001			3/10/2000			3/23/1999			6/14/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.27	0.2		0.23	0.2		<	0.40	U	0.185	0.1		0.201	0.1		0.365	0.1		<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.64	U	1	0.2		1.2	0.40		1.06	0.1		2.08	0.2		2.55	0.2		1.58	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.1	UJ	<	0.1	U	<	0.10	U	<	0.5	U	<	1	U	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	0.6	1	J	2.80	1.00		0.60	1.0	J	<	1	U	1.26	1		<	1	U	0.36	1	J
Sulfate USEPA 9056A (mg/L)	47	2		48	5		43	5.0		45.9	5		28.6	2		21.5	5		25.5	1	
Dissolved Organic Carbon SM 9060A (mg/L)	7.7	1		7.2	1.0		7.2	1.0		5.00	5		16.8	5		32.6	5		23.5	5	
Alkalinity SM 2320B (mg/L)	250	5		250	5		240	5.0		248	5		366	5		470	5		420	5	
Methane RSK-175 (µg/L)	180	2		150	2		52	2.0		140	20		450	100		573	200		2010	100	
Carbon Dioxide SM 2320B (mg/L)[1]	110	0.2		110	1		110	1.0		109	5		161	2.2		207	2.2		185	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW070					NW070					NW070			NW070			NW070		
COLLECT DATE	5/19/2021					6/9/2020					None			3/6/2013			2/29/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	0.034	J	0.022	0.05	0.1	0.087	J	0.022	0.05	0.1				<	0.25	U	<	0.25	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2		0.69	1	1	1.3		0.69	1	1	**Not Sampled**			0.881	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.031	J	0.019	0.05	0.1	<	U	0.019	0.05	0.1	**in 2014, 2015, 2016,**			25	0.1		30	0.1	
Sulfide SM 9034 (mg/L)	<	U	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			<	2	U	0.4	2	J
Sulfate USEPA 9056A (mg/L)	18		1	2.5	5	5.9		1	3	5				16.1	1		78	1	
Dissolved Organic Carbon SM 9060A (mg/L)	15		0.35	0.8	1	10		0.35	1	1				6.02	1		6.1	1	
Alkalinity SM 2320B (mg/L)	120		3.1	6.4	10	72		3.1	10	10				160	1.25		132	1.25	
Methane RSK-175 (µg/L)	8		0.63	2	5	3900		0.63	2	5				<	5	U	<	5	UJ
Carbon Dioxide SM 2320B (mg/L)[1]	53		3.1	6.4	10	32		3.1	10	10				71	10		59	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW070			NW070			NW070			NW070			NW070			NW070			NW070			NW070			NW070			NW070		
COLLECT DATE	3/1/2011			3/9/2010			3/4/2009			3/5/2008			3/8/2007			3/10/2006			3/10/2005			3/11/2004			3/13/2003					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																														
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	<	0.1	U	0.066	0.05		<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.2	0.2	J	0.17	0.2	J			
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	1.2	1		<	1	U	1.1	1	J	<	1	U	<	1	U	1.1	0.2		0.9	0.2				
Nitrate/Nitrite USEPA 353.2 (mg/L)	23	0.1		33	0.5		2.9	0.1		22	0.5		13	1		29	1.3		29	2.5		11	1		16.39	0.5	J			
Sulfide SM 9034 (mg/L)	<	2	U	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U			
Sulfate USEPA 9056A (mg/L)	78	1		81	25		30	20		48	10		20	10		65	20		59	10		48	2		39	5				
Dissolved Organic Carbon SM 9060A (mg/L)	7.1	1		5.3	1		7.4	1		6.6	1		9.1	1		5.3	1		5.1	1		5.1	1		5.2	1.0				
Alkalinity SM 2320B (mg/L)	268	1		170	5		280	8		120	2		88	8		130	8		160	8		170	5		150	5				
Methane RSK-175 (µg/L)	<	5	UJ	<	5	U	110	0.31		<	1.7	U	<	0.87	U	1.2	0.87		<	0.87	U	<	2	U	<	2	U			
Carbon Dioxide SM 2320B (mg/L)[1]	119	0.4		75	2.2		130	0.22		53	0.88		39	0.88		55	0.88		70	0.1		75	0.1		66	1				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-17
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW070			NW070			NW070			NW070			NW070		
COLLECT DATE	3/15/2002			3/16/2001			3/9/2000			3/18/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	3.1	0.20		<	0.1	U	<	0.1	U	<	0.1	U	0.072	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.7	0.20		<	0.1	U	2.67	0.2		<	0.1	U	0.89	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	37	2.0		24.6	1		<	1	U	7.23	1		<	1	U
Sulfide SM 9034 (mg/L)	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	190	4.0		56.9	5		33.3	2		42.2	5		3.08	1	
Dissolved Organic Carbon SM 9060A (mg/L)	5.2	1.0		<	5	U	7.80	5		19.8	5		15.6	5	
Alkalinity SM 2320B (mg/L)	160	5.0		152	5		167	5		171	5		99.5	5	
Methane RSK-175 (µg/L)	<	2.0	U	<	1	U	210	50		157	20		133	20	
Carbon Dioxide SM 2320B (mg/L)[1]	70	1.0		66.9	5		73.5	2.2		75.2	2.2		43.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW071					NW071					NW071			NW071			NW071		
COLLECT DATE	5/19/2021					6/9/2020					None			3/6/2013			2/29/2012		
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																			
Ammonia USEPA 350.1 (mg/L)	<	U	0.022	0.05	0.1	<	U	0.022	0.05	0.1				0.160	0.25	J	0.092	0.25	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	U	0.69	1	1	<	UJ	0.69	1	1	**Not Sampled**			<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	32		0.19	0.5	1	30		0.19	0.5	1	**in 2014, 2015, 2016,**			27.4	0.1		22	0.1	
Sulfide SM 9034 (mg/L)	0.8	J	0.79	1.9	4	<	U	0.79	1.9	4	**2017, 2018, 2019**			0.2	2	J	0.2	2	J
Sulfate USEPA 9056A (mg/L)	63		1	2.5	5	64		1	3	5				64.2	1		<	1	U
Dissolved Organic Carbon SM 9060A (mg/L)	3.2		0.35	0.8	1	3.7		0.35	1	1				4.4	1		2.6	1	
Alkalinity SM 2320B (mg/L)	110		3.1	6.4	10	96		3.1	10	10				130	1.25		114	1.25	
Methane RSK-175 (µg/L)	<	U	0.63	2	5	<	U	0.63	2	5				<	5	U	0.52	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	49		3.1	6.4	10	43		3.1	10	10				58	10		51	1.25	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW071			NW071			NW071			NW071			NW071			NW071			NW071		
COLLECT DATE	3/1/2011			3/9/2010			3/5/2009			3/5/2008			3/8/2007			3/10/2006			3/10/2005		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.25	UJ	1.2	0.1		<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	22	0.1		22	0.5		27	2.5		28	1		34	1		17	0.5		91	2.5	
Sulfide SM 9034 (mg/L)	0.2	2	J	<	4	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	52	1		44	5		39	20		44	20		47	20		49	20		58	10	
Dissolved Organic Carbon SM 9060A (mg/L)	3.1	1		2.2	1		2.8	1		3.1	1		3.3	1		2.4	1		4.3	1	
Alkalinity SM 2320B (mg/L)	118	1		120	5		110	8		110	2		120	8		120	8		130	8	
Methane RSK-175 (µg/L)	<	5	UJ	1200	25		<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U
Carbon Dioxide SM 2320B (mg/L)[1]	52	0.4		54	2.2		50	0.22		48	0.88		53	0.88		53	0.88		57	0.1	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-18
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW071			NW071			NW071			NW071			NW071			NW071			NW071		
COLLECT DATE	3/11/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000			3/18/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.18	0.2	J	<	0.2	U	<	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	2	0.2		0.72	0.2		0.37	0.20		0.238	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	35	1		32	1	J	19	0.50		13.4	0.5		12.9	1		13.4	1		11.9	1	
Sulfide SM 9034 (mg/L)	<	1	U	1.5	1		<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	55	2		52	1		35	5.0		34.8	5		33.4	2		40.8	5		31.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)	3.9	1		2.9	1.0		2.2	1.0		<	5	U	<	5	U	16.9	5		7.2	5	
Alkalinity SM 2320B (mg/L)	110	5		120	5		130	5.0		114	5		134	5		140	5		136	5	
Methane RSK-175 (µg/L)	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	48	0.3		53	1		57	1.0		50.2	5		59.0	2.2		61.6	2.2		59.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW080					NW080					NW080					NW080				
COLLECT DATE	None					6/8/2020					None					None				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)						<	U	0.022	0.05	0.1										
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				<	U	0.69	1	1		**Not Sampled**					**No Analysis in 2017**			
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				26		0.095	0.25	0.5		**in 2017, 2018, 2019**								
Sulfide SM 9034 (mg/L)						<	U	0.79	1.9	4										
Sulfate USEPA 9056A (mg/L)						130		1	3	5										
Dissolved Organic Carbon SM 9060A (mg/L)						3.9		0.35	1	1										
Alkalinity SM 2320B (mg/L)						210		3.1	10	10										
Methane RSK-175 (µg/L)						<	U	0.63	2	5										
Carbon Dioxide SM 2320B (mg/L)[1]						93		3.1	10	10										

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW080					NW080			NW080			NW080			NW080			NW080			1
COLLECT DATE	8/11/2015					None			3/6/2013			3/2/2012			3/3/2011			3/15/2010			3
	Result	DL	LOD	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.022	0.050	0.10	U				<	0.25	U	<	0.25	UJ	<	0.25	UJ	0.036	0.1	J	<
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.18	0.50	1.0	U	**No 2014 Sample**			<	1	U	<	1	U	<	1	U	<	1	U	<
Nitrate/Nitrite USEPA 353.2 (mg/L)	43	0.19	0.50	1.0		**Well Dry**			27.6	0.1		28	0.1		16	0.1		32	1		28
Sulfide SM 9034 (mg/L)	<	0.79	1.9	4.0	U				0.2	2	J	0.4	2	J	0.2	2	J	0.86	1	J	<
Sulfate USEPA 9056A (mg/L)	99	1.2	2.5	25					18	1		94	5		109	2		81	25		82
Dissolved Organic Carbon SM 9060A (mg/L)	3.3	0.16	0.50	1.0					3.38	1		2.7	1		3.5	1		2.6	1		11
Alkalinity SM 2320B (mg/L)	120	1.1	3.2	5.0					150	1.25		118	1.25		198	1		190	5		230
Methane RSK-175 (µg/L)	<	0.22	0.80	5.0	U				<	5	U	<	5	U	<	5	UJ	<	5	U	<
Carbon Dioxide SM 2320B (mg/L)[1]	53	1.1	3.2	5.0					67	10		52	1.25		88	0.4		82	2.2		100

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW080		NW080			NW080			NW080			NW080			NW080			NW080			
COLLECT DATE	/4/2009		3/6/2008			3/8/2007			3/10/2006			3/11/2005			3/11/2004			3/13/2003			3/
	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.18	0.2	J	<	0.2	U	<
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.4	0.2		0.29	0.2		0.48
Nitrate/Nitrite USEPA 353.2 (mg/L)	1		55	2.5		31	1		22	0.5		16	0.5		28	1	J	33	1	J	45
Sulfide SM 9034 (mg/L)	1	U	<	1	U	<	1	U	<	1	U	<	1	U	0.6	1	J	2.1	1	J	<
Sulfate USEPA 9056A (mg/L)	20		77	20		97	20		80	20		64	10		56	2		50	5		54
Dissolved Organic Carbon SM 9060A (mg/L)	1		4.2	1		3.3	1		3.2	1		3.3	1		2.8	1		2.3	1.0		2.8
Alkalinity SM 2320B (mg/L)	8		110	2		170	8		140	8		110	8		80	5		72	5		80
Methane RSK-175 (µg/L)	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<
Carbon Dioxide SM 2320B (mg/L)[1]	0.22		48	0.88		76	0.88		62	0.88		48	0.1		35	2.2		32	1		35

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-19
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW080		NW080			NW080			NW080			NW080		
COLLECT DATE	/15/2002		3/16/2001			3/9/2000			3/19/1999			6/15/1998		
	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS														
Ammonia USEPA 350.1 (mg/L)	0.20	U	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.29		<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.0		35.2	1		35.6	2		35.7	2		45.5	4	
Sulfide SM 9034 (mg/L)	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	2.0		49.2	5		44.3	2		47.5	5		43.4	2	
Dissolved Organic Carbon SM 9060A (mg/L)	1.0		<	5	U	<	5	U	14.7	5		8.3	5	
Alkalinity SM 2320B (mg/L)	5.0		96.6	5		85.9	5		96	5		78.6	5	J
Methane RSK-175 (µg/L)	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	1.0		42.5	5		37.8	2.2		42.2	2.2		34.6	2.2	J

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW081R					NW081R					NW081R					NW081R				
COLLECT DATE	None					6/8/2020					None					None				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)						<	U	0.022	0.05	0.1										
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				<	U	0.69	1	1		**Not Sampled**					**No Analysis in 2016**			
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				26		0.095	0.25	0.5		**in 2017, 2018, 2019**								
Sulfide SM 9034 (mg/L)						0.8	J	0.79	1.9	4										
Sulfate USEPA 9056A (mg/L)						95		1	3	5										
Dissolved Organic Carbon SM 9060A (mg/L)						5		0.35	1	1										
Alkalinity SM 2320B (mg/L)						220		3.1	10	10										
Methane RSK-175 (µg/L)						<	U	0.63	2	5										
Carbon Dioxide SM 2320B (mg/L)[1]						98		3.1	10	10										

Notes:
*NW081 was abandoned and replaced by NW081R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW081R					NW081R			NW081R			NW081R			NW081			NW081		
COLLECT DATE	8/11/2015					8/12/2014			3/6/2013			4/16/2012			3/3/2011			3/15/2010		
	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	<	0.022	0.050	0.10	U	0.032	0.1	J	<	0.25	U	0.156	0.25	J	<	0.25	UJ	0.057	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.18	0.50	1.0	UJ	<	1	U	0.429	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	36	0.19	0.50	1.0		38	1		26.6	0.1		28	0.1		32	0.1		34	1	
Sulfide SM 9034 (mg/L)	<	0.79	1.9	4.0	U	<	4	U	0.2	2	J	0.6	2	J	0.2	2	J	3.2	1	
Sulfate USEPA 9056A (mg/L)	85	1.2	2.50	25		89	5		18.3	1		88	5		87	2		80	25	
Dissolved Organic Carbon SM 9060A (mg/L)	4.4	0.16	0.50	1.0		5	1		4.64	1		6.0	1		4.7	1		3.5	1	
Alkalinity SM 2320B (mg/L)	210	1.1	3.2	5.0		200	5		215	1.25		215	1.25		218	1		210	5	
Methane RSK-175 (µg/L)	<	0.22	0.80	5.0	U	<	5	U	<	5	U	<	5	U	<	5	UJ	<	5	U
Carbon Dioxide SM 2320B (mg/L)[1]	93	1.1	3.2	5.0		89	5		96	10		96	1.25		97	0.4		92	2.2	

Notes:
*NW081 was abandoned and replaced by NW081R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW081			NW081			NW081			NW081			NW081			NW081			NW081		
COLLECT DATE	3/4/2009			3/6/2008			3/8/2007			3/10/2006			3/11/2005			3/11/2004			3/13/2003		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.22	0.2		<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.8	0.2		0.63	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	32	1		26	1		22	1	J	28	1.3		46	1		39	1		40	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.6	1	
Sulfate USEPA 9056A (mg/L)	40	20		68	20		74	20		74	20		68	10		68	2		73	25	
Dissolved Organic Carbon SM 9060A (mg/L)	3.9	1		4.6	1		3.9	1		4	1		3.9	1		4	1		3.2	1.0	
Alkalinity SM 2320B (mg/L)	210	8		180	2		180	8		170	8		170	8		150	5		170	5	
Methane RSK-175 (µg/L)	0.55	0.31		<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	93	0.22		79	0.88		79	0.88		75	0.88		75	0.1		66	0.8		75	1	

Notes:
*NW081 was abandoned and replaced by NW081R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-20
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW081			NW081			NW081			NW081			NW081		
COLLECT DATE	3/15/2002			3/16/2001			3/9/2000			3/19/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.06	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.76	0.31		0.11	0.1		0.115	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	42	2.0		46.1	1		44.6	2		34.7	2		35.5	4	
Sulfide SM 9034 (mg/L)	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	77	2.0		60.8	5		53.4	2		58.3	5		50.7	1	
Dissolved Organic Carbon SM 9060A (mg/L)	4.7	1.0		<	5	U	<	5	U	15.5	5		11.2	5	
Alkalinity SM 2320B (mg/L)	170	5.0		160	5		172	5		179	5		173	5	
Methane RSK-175 (µg/L)	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	75	1.0		70.4	5		75.7	2.2		78.8	2.2		96.1	2.2	

Notes:
*NW081 was abandoned and replaced by NW081R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW082R					NW082R					NW082R					NW082R				
COLLECT DATE	None					6/8/2020					None					None				
	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)						0.024	J	0.022	0.05	0.1										
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)		**Not Sampled**				<	U	0.69	1	1		**Not Sampled**					**No Analysis in 2016**			
Nitrate/Nitrite USEPA 353.2 (mg/L)		**in 2021**				17		0.038	0.1	0.2		**in 2017, 2018, 2019**								
Sulfide SM 9034 (mg/L)						<	U	0.79	1.9	4										
Sulfate USEPA 9056A (mg/L)						85		1	3	5										
Dissolved Organic Carbon SM 9060A (mg/L)						4.2		0.35	1	1										
Alkalinity SM 2320B (mg/L)						230		3.1	10	10										
Methane RSK-175 (µg/L)						2	J	0.63	2	5										
Carbon Dioxide SM 2320B (mg/L)[1]						102		3.1	10	10										

Notes:
*NW082 was abandoned and replaced by NW082R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW082R					NW082R			NW082R			NW082R			NW082			NW082		
COLLECT DATE	8/11/2015					8/12/2014			3/6/2013			4/16/2012			3/3/2011			3/15/2010		
	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																				
Ammonia USEPA 350.1 (mg/L)	0.19	0.022	0.010	0.10		0.04	0.1	J	<	0.25	U	0.094	0.25	J	<	0.25	UJ	0.036	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.18	0.50	1.0	U	<	1	U	0.45	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	35	0.19	0.50	1.0		38	1		27.3	0.1		21	0.1		27	0.1		28	0.5	
Sulfide SM 9034 (mg/L)	<	0.79	1.9	4.0	U	<	4	U	0.2	2	J	0.4	2	J	0.2	2	J	<	1	U
Sulfate USEPA 9056A (mg/L)	81	1.2	2.5	25		100	5		19.7	5		78	5		82	2		72	25	
Dissolved Organic Carbon SM 9060A (mg/L)	4.2	0.16	0.50	1.0		3.7	1		4.84	1		4.3	1		4.4	1		3.2	1	
Alkalinity SM 2320B (mg/L)	190	1.1	3.2	5.0		170	5		202	1.25		200	1.25		202	1		220	5	
Methane RSK-175 (µg/L)	5.2	0.22	0.80	5.0		1.2	5	J	2.80	5	J	0.80	5	J	<	5	UJ	1.9	5	J
Carbon Dioxide SM 2320B (mg/L)[1]	84	1.1	3.2	5.0		76	5		90	10		89	1.25		90	0.4		95	2.2	

Notes:
*NW082 was abandoned and replaced by NW082R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW082			NW082			NW082			NW082			NW082			NW082			NW082		
COLLECT DATE	3/4/2009			3/6/2008			3/8/2007			3/10/2006			3/11/2005			3/11/2004			3/13/2003		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.21	0.2		<	0.2	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.7	0.2		0.80	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	24	0.5		25	0.5		28	1		24	1.3	J	44	1		32	1		31	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.8	1	
Sulfate USEPA 9056A (mg/L)	63	20		67	20		62	20		70	20		66	10		70	2		68	5	
Dissolved Organic Carbon SM 9060A (mg/L)	3.5	1		4.3	1		3.6	1		3.7	1		3.6	1		3.9	1		3.2	1.0	
Alkalinity SM 2320B (mg/L)	220	8		200	2		200	8		190	8		200	8		180	5		200	5	
Methane RSK-175 (µg/L)	0.47	0.31		<	1.7	U	0.54	0.87	J	1.4	0.87		0.3	0.87	J	<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	96	0.22		88	0.88		86	0.88		84	0.88		88	0.1		79	0.4		88	1	

Notes:
*NW082 was abandoned and replaced by NW082R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-21
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW082			NW082			NW082			NW082			NW082		
COLLECT DATE	3/15/2002			3/16/2001			3/9/2000			3/19/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.09	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.80	0.32		<	0.1	U	0.118	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	40	1.0		38.6	1		40.0	2		27.2	2		28	2	
Sulfide SM 9034 (mg/L)	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	82	2.0		68.6	5		61.4	2		64.5	5		54.2	1	
Dissolved Organic Carbon SM 9060A (mg/L)	4.3	1.0		<	5	U	<	5	U	14.1	5		7.9	5	
Alkalinity SM 2320B (mg/L)	220	5.0		211	5		217	5		226	5		224	5	
Methane RSK-175 (µg/L)	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	97	1.0		92.8	5		95.5	2.2		94.4	2.2		98.6	2.2	

Notes:
*NW082 was abandoned and replaced by NW082R in 2012.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW090-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW090			NW090			NW090			NW090			NW090			NW090			NW090		
COLLECT DATE	None			3/10/2005			3/10/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.5	U	0.12	0.2	J	<	0.26	U	0.35	0.20		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			<	1	U	0.9	0.2		0.88	0.2		1.4	1.4	J	0.475	0.1		0.214	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			7.1	0.25		7.3	1		8.1	0.5	J	10	1.0		8.59	0.5		12.1	1	
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	1.80	1.00		0.50	1.0	J	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				52	10		44	2		63	5		43	2.0		40.1	5		54.2	2	
Dissolved Organic Carbon SM 9060A (mg/L)				3	1		3.8	1		3.5	1.0		3.6	1.0		<	5	U	6.20	5	
Alkalinity SM 2320B (mg/L)				100	8		130	5		100	5		110	5.0		130	5		192	5	
Methane RSK-175 (µg/L)				4.2	0.87		9.4	2		<	2	U	<	2.0	U	27	1		16	1	
Carbon Dioxide SM 2320B (mg/L)[1]				44	0.1		57	2.5		44	1		48	1.0		57.2	5		84.5	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-22
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW090-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW090			NW090		
COLLECT DATE	3/19/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	0.11	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	26.8	2		25.8	2	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	43.3	2		20.1	5	
Dissolved Organic Carbon SM 9060A (mg/L)	13.0	5		16.5	5	
Alkalinity SM 2320B (mg/L)	163	5		181	5	
Methane RSK-175 (µg/L)	33.8	20		41.2	2	
Carbon Dioxide SM 2320B (mg/L)[1]	71.7	2.2		79.6	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW091-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW091			NW091			NW091			NW091			NW091			NW091			NW091		
COLLECT DATE	None			3/10/2005			3/10/2004			3/13/2003			3/15/2002			3/16/2001			3/9/2000		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)				<	0.05	U	0.15	0.2	J	<	0.2	U	0.24	0.20		<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			1.1	1		<	0.46	U	0.61	0.2		0.43	0.20		0.463	0.1		0.728	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2005**			0.23	0.05		0.67	0.1		0.28	0.1		0.24	0.10		<	0.5	U	<	1	U
Sulfide SM 9034 (mg/L)				<	1	U	<	1	U	1.4	1		<	1.0	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)				40	10		41	2		41	5		43	2.0		40.3	5		37.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)				3.8	1		4	1		3.7	1.0		4.6	1.0		<	5	U	6.40	5	
Alkalinity SM 2320B (mg/L)				250	8		240	5		260	5		260	5.0		244	5		248	5	
Methane RSK-175 (µg/L)				0.65	0.87	J	<	2	U	<	2	U	<	2.0	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]				110	0.1		106	0.4		114	1		110	1.0		107	5		109	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-23
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW091-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW091			NW091		
COLLECT DATE	3/19/1999			6/13/1998		
	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS						
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.38	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	46.3	1		34.5	1	
Dissolved Organic Carbon SM 9060A (mg/L)	14.8	5		16.7	5	
Alkalinity SM 2320B (mg/L)	272	5		265	5	
Methane RSK-175 (µg/L)	12.5	1		11.7	1	
Carbon Dioxide SM 2320B (mg/L)[1]	120	2.2		117	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW100			NW100			NW100			NW100			NW100			NW100			NW100		
COLLECT DATE	None			None			3/7/2013			2/29/2012			3/3/2011			3/10/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.311	0.25		0.175	0.25	J	<	0.25	UJ	0.036	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.63	1		<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			50.1	0.1		39	0.1		25	0.1		8.7	0.1		24	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.401	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							48.3	1		44	1		39	1		27	5		38	20	
Dissolved Organic Carbon SM 9060A (mg/L)							4.28	1		3.3	1		3.7	1		1.6	1		4.7	1	
Alkalinity SM 2320B (mg/L)							30	1.25		32	1.25		38	1		35	5		210	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							13	10		14	1.25		17	0.4		15	2.2		92	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW100			NW100			NW100			NW100			NW100			NW100			NW100		
COLLECT DATE	3/4/2009			3/5/2008			3/8/2007			3/8/2006			None			3/16/2004			3/13/2003		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U				0.14	0.2	J	0.17	0.2	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	**No 2005 Sample**			1.2	0.2		0.55	0.20	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	24	0.5		18	0.5		5.7	1		4.4	0.25		**Well Dry**			36	1		42	2	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U				0.7	1	J	0.7	1	J
Sulfate USEPA 9056A (mg/L)	38	20		36	10		10	1		13	5					42	2		50	5	
Dissolved Organic Carbon SM 9060A (mg/L)	4.7	1		2.9	1		<	1	U	1.3	1					3.7	1		4.7	1	
Alkalinity SM 2320B (mg/L)	210	8		26	2		32	4		32	8					23	5		27	5	
Methane RSK-175 (µg/L)	<	0.31	U	<	1.7	U	<	0.87	U	<	0.87	U				<	2	U	<	2	U
Carbon Dioxide SM 2320B (mg/L)[1]	92	0.22		11	0.88		14	0.88		14	0.88					10	3.4		12	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-24
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW100			NW100			NW100			NW100			NW100		
COLLECT DATE	3/14/2002			3/19/2001			3/8/2000			3/22/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS															
Ammonia USEPA 350.1 (mg/L)	0.57	0.4		<	0.1	U	<	0.1	U	<	0.1	U	0.033	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.80	0.20	J	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	51	5.0		64.2	2.5		89.1	10		72.2	5		80.7	10	
Sulfide SM 9034 (mg/L)	<	1.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	81	2.0		53	5		48.8	2		76.1	5		57.3	1	
Dissolved Organic Carbon SM 9060A (mg/L)	6.6	1.0	J	<	5	U	<	5	U	8.10	5		7.1	5	
Alkalinity SM 2320B (mg/L)	22	5.0		23.3	5		25.2	5		25	5		41.5	5	
Methane RSK-175 (µg/L)	<	2.0	U	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	9.7	1.0		10.3	5		11.1	2.2		11.0	2.2		18.3	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW101			NW101			NW101			NW101			NW101			NW101			NW101		
COLLECT DATE	None			None			3/7/2013			2/29/2012			3/3/2011			3/10/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							4.0	0.25	J	3.9	0.25		2.9	0.25		1.2	0.1	J	1.5	0.05	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.42	1		3.8	1		<	1	U	<	1	UJ	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			42.7	0.1	J	39	0.1	J	44	0.1		39	0.5		42	2.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			<	2	U	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							78.4	5		78	2		90	2		84	25		72	20	J
Dissolved Organic Carbon SM 9060A (mg/L)							9.1	1		8.3	1		15	1		12	1		17	1	
Alkalinity SM 2320B (mg/L)							145	1.25		131	1.25		198	1		190	5		210	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							64	10		58	1.25		88	0.4		84	2.2		93	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW101			NW101			NW101			NW101			NW101			NW101			NW101		
COLLECT DATE	3/5/2008			3/9/2007			3/8/2006			3/9/2005			3/11/2004			3/13/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.25	0.05	J	0.072	0.05		<	0.05	U	<	0.05	U	0.47	0.2	J	0.48	0.20		0.60	0.20	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	UJ	<	1	UJ	<	1	U	<	1	UJ	2.6	0.2	J	1	0.2		1.4	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	49	2.5	J	45	1	J	48	1	J	46	2.5	J	37	1	J	38	1	J	48	2.0	
Sulfide SM 9034 (mg/L)	<	1	UJ	<	1	U	<	1	U	<	1	U	0.7	1	J	1.3	1		<	1.0	U
Sulfate USEPA 9056A (mg/L)	72	20		61	20		66	20		63	10		62	2		52	5		69	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	13	1		9.9	1		11	1		10	1		10	1		6.9	1.0		8.8	1.0	
Alkalinity SM 2320B (mg/L)	200	2		180	8		190	8		160	8		150	5		150	5		160	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U			
Carbon Dioxide SM 2320B (mg/L)[1]	88	0.88		81	0.88		85	0.88		70	0.1		66	0.8		66	1		70	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-25
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW101			NW101			NW101			NW101		
COLLECT DATE	3/19/2001			3/8/2000			3/22/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.312	0.1		<	0.1	U	<	0.1	U	0.093	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.609	0.1		0.100	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	44.1	1		45.9	5		58.1	4		41.2	4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	51.5	5		47.0	2		56.5	5		48.9	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	6.5	5		7.10	5		9.3	5	
Alkalinity SM 2320B (mg/L)	104	5		116	5		124	5		135	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	45.8	5		51.0	2.2		54.5	2.2		59.4	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW102			NW102			NW102			NW102			NW102			NW102			NW102		
COLLECT DATE	None			None			3/7/2013			2/29/2012			3/3/2011			3/10/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							0.679	0.25		0.192	0.25	J	<	0.25	UJ	0.068	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1		<	1	UJ	0.771	1	J	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			28	0.1		29	0.1		35	0.1		37	0.5		35	1	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.2	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							53.6	1		69	1		84	2		64	25		61	20	
Dissolved Organic Carbon SM 9060A (mg/L)							5.06	1		6.4	1		10	1		4.7	1		<	1	U
Alkalinity SM 2320B (mg/L)							110	1.25		137	1.25		165	1		120	5		200	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							49	10		61	1.25		73	0.4		52	2.2		87	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW102			NW102			NW102			NW102			NW102			NW102			NW102		
COLLECT DATE	3/5/2008			3/8/2007			3/8/2006			3/10/2005			3/11/2004			3/12/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.16	0.2	J	<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.8	0.2		0.3	0.2		1.1	0.42	
Nitrate/Nitrite USEPA 353.2 (mg/L)	33	1		26	1		22	0.5		15	0.5		25	1		27	1	J	37	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.3	1		<	1.0	U
Sulfate USEPA 9056A (mg/L)	62	5		55	20		58	20		50	10		49	2		41	5		52	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	10	1		10	1		12	1		7.6	1		5.1	1		2.9	1		5.4	1.0	
Alkalinity SM 2320B (mg/L)	190	2		240	8		250	8		190	8		130	5		110	5		140	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	84	0.88		110	0.88		110	0.88		84	0.1		57	0.8		48	1		62	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-26
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW102			NW102			NW102			NW102		
COLLECT DATE	3/19/2001			3/8/2000			3/22/1999			6/12/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	29.3	1		31.6	2		34.1	2		34.4	4	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	38.6	5		33.4	2		73	5		38.1	1	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	<	5	U	5.90	5		8.9	5	
Alkalinity SM 2320B (mg/L)	99.0	5		103	5		107	5		114	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	43.6	5		45.3	2.2		47.1	2.2		50.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW120			NW120			NW120			NW120			NW120			NW120			NW120		
COLLECT DATE	None			None			3/1/2012			3/1/2012			3/3/2011			3/10/2010			3/5/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)										<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			**No 2013 Sample**			<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			**Obstruction**			9.5	0.1		9.7	0.1		9.5	0.1		15	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**						0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)										87	2		89	2		110	25		92	20	
Dissolved Organic Carbon SM 9060A (mg/L)										2.3	1		2.5	1		2	1		2.1	1	
Alkalinity SM 2320B (mg/L)										182	1.25		122	1		140	5		160	8	
Methane RSK-175 (µg/L)										<	5	UJ	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]										81	1.25		54	0.4		61	2.2		71	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW120			NW120			NW120			NW120			NW120			NW120			NW120		
COLLECT DATE	3/6/2008			None			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.06	0.05					<	0.05	U	0.08	0.05		0.13	0.2	J	<	0.2	U	<	0.28	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	**No 2007 Sample**			<	1	U	<	1	U	<	0.72	U	0.34	0.2		0.43	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	18	0.5		**Well Dry**			11	0.5		8	0.5		6.9	1		6.5	0.5		9.1	0.50	
Sulfide SM 9034 (mg/L)	1	1					<	1	U	<	1	U	<	1	U	0.7	1	J	1.2	1.0	
Sulfate USEPA 9056A (mg/L)	110	20					110	20		89	20		82	2		74	25		53	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.7	1					2.8	1		2.2	1		2.5	1		2.0	1.0		2.4	1.0	
Alkalinity SM 2320B (mg/L)	150	2					130	8		130	8		130	5		170	5		130	5.0	
Methane RSK-175 (µg/L)	<	1.7	U				<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	66	0.88					55	0.88		57	0.1		57	0.7		75	1		57	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-27
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW120			NW120			NW120			NW120		
COLLECT DATE	3/15/2001			3/16/2000			3/25/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	1.81	0.1		1.29	0.1		2.05	0.2		1.48	0.1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.86	0.1		1.36	0.1		1.07	0.1		<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	6.83	0.5		8.94	1		7.07	2		6.51	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	46.5	5		81.4	2		67.5	5		55.8	5	
Dissolved Organic Carbon SM 9060A (mg/L)	11.6	5		13.5	5		6.50	5		8.8	5	
Alkalinity SM 2320B (mg/L)	117	5		152	5		149	5		120	5	
Methane RSK-175 (µg/L)	<	1.1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	51.5	5		66.7	2.2		65.6	2.2		52.8	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW121			NW121			NW121			NW121			NW121			NW121			NW121		
COLLECT DATE	None			None			3/6/2013			3/1/2012			3/3/2011			3/10/2010			3/5/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	<	0.25	UJ	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.31	1		<	1	UJ	0.785	1	J	0.41	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			1.420	0.1		0.994	0.1		0.988	0.1		1.5	0.1		1.5	0.05	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.401	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							51.2	1		54	1		67	1		84	25		75	20	
Dissolved Organic Carbon SM 9060A (mg/L)							4.55	1		4.9	1		5.3	1		3.3	1		3.5	1	
Alkalinity SM 2320B (mg/L)							250	1.25		342	1.25		322	1		250	5		260	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	UJ	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							111	10		152	1.25		143	0.4		110	2.2		110	0.22	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW121			NW121			NW121			NW121			NW121			NW121			NW121		
COLLECT DATE	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	0.53	0.05		<	0.05	U	<	0.05	U	0.11	0.2	J	<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	0.9	0.2		0.29	0.2		0.36	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	8.5	0.5		12	1		9.6	0.25		8.9	0.5		8.1	1		6.6	0.5		2.6	0.10	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.1	1.0	
Sulfate USEPA 9056A (mg/L)	75	20		78	20		72	20		110	10		72	2		78	25		67	4.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.2	1		2	1		2.2	1		2.1	1		2.4	1		2.2	1		3.3	1.0	
Alkalinity SM 2320B (mg/L)	210	2		210	8		210	8		220	8		210	5		260	5		280	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	92	0.88		92	0.88		92	0.88		97	0.1		92	0.4		114	1		120	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-28
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW121			NW121			NW121			NW121		
COLLECT DATE	3/15/2001			3/16/2000			3/25/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.458	0.1		0.591	0.1		<	0.1	U	0.34	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.02	0.5		<	1	U	<	1	U	1.05	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	56.1	5		40.7	2		50.2	2		50.4	1	
Dissolved Organic Carbon SM 9060A (mg/L)	10.7	5		18.2	5		<	5	U	10.2	5	
Alkalinity SM 2320B (mg/L)	280	5		354	5		326	5		427	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	123	5		156	2.2		143	2.2		94.2	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW122			NW122			NW122			NW122			NW122			NW122			NW122			NW122		
COLLECT DATE	None			None			3/6/2013			3/1/2012			3/3/2011			3/10/2010			3/5/2009					
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual			
NATURAL ATTENUATION PARAMETERS																								
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	<	0.25	UJ	<	0.1	U	0.077	0.05				
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.957	1	J	<	1	U	<	1	UJ	0.16	1	J	<	1	U			
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			<	0.1	U	0.211	0.1		<	0.1	UJ	<	0.1	U	<	0.05	U			
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U			
Sulfate USEPA 9056A (mg/L)							24.7	1		24	1		23	1		22	5		22	2				
Dissolved Organic Carbon SM 9060A (mg/L)							1.6	1		<	1	UJ	1.4	1		0.55	1	J	1.7	1				
Alkalinity SM 2320B (mg/L)							185	1.25		170	1.25		192	1		190	5		190	8				
Methane RSK-175 (µg/L)							28	5		26	5	J	24	5		69	5		25	0.31				
Carbon Dioxide SM 2320B (mg/L)[1]							82	10		76	1.25		85	0.4		83	2.2		85	0.22				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW122			NW122			NW122			NW122			NW122			NW122			NW122		
COLLECT DATE	3/6/2008			3/8/2007			3/9/2006			3/9/2005			3/10/2004			3/12/2003			3/14/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	0.085	0.05		0.082	0.05		<	0.05	U	0.06	0.05		0.16	0.2	J	0.2	0.2	J	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	0.29	U	0.21	0.20		0.28	0.20	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	<	0.1	U	0.064	0.100	J	0.082	0.10	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	1.00	1.00		0.80	1.0	J
Sulfate USEPA 9056A (mg/L)	22	10		21	10		21	10		22	10		22	2		22	5		27	4.0	
Dissolved Organic Carbon SM 9060A (mg/L)	1.3	1		<	1	U	<	1	U	1.2	1		<	1.2	U	<	1.0	U	1.7	1.0	
Alkalinity SM 2320B (mg/L)	180	2		180	8		180	8		180	8		170	5		190	5		180	5.0	
Methane RSK-175 (µg/L)	13	1.7		10	0.87		7.4	0.87		9.2	0.87		5.3	2		<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	79	0.88		81	0.88		79	0.88		79	0.1		75	0.3		84	1		79	1.0	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-29
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW122			NW122			NW122			NW122		
COLLECT DATE	3/15/2001			3/16/2000			3/25/1999			6/15/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	0.85	0.1	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.304	0.1		0.298	0.1		<	0.1	U	0.030	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.5	U	<	1	U	<	1	U	1.0	1	J
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	26.8	5		21.0	0.2		22.3	2		18.7	1	
Dissolved Organic Carbon SM 9060A (mg/L)	8.40	5		11.3	5		7.00	5		8.1	5	
Alkalinity SM 2320B (mg/L)	171	5		189	5		182	5		182	5	
Methane RSK-175 (µg/L)	<	2.2	U	1.3	1		<	1.85	U	1.45	1	
Carbon Dioxide SM 2320B (mg/L)[1]	75.2	5		83.3	2.2		80.1	2.2		80.1	2.2	

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW130R			NW130R			NW130R			NW130R			NW130R			NW130R			NW130R		
COLLECT DATE	None			None			3/6/2013			3/1/2012			3/1/2011			3/8/2010			3/3/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	0.051	0.25	J	0.11	0.1		<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			1.6	1		3.0	1		<	1	UJ	0.94	1	J	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			3.8	0.1		1.2	0.1		3.7	0.1		1.6	0.1		3.4	0.1	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							19.5	1		275	10		198	10		230	25		210	20	
Dissolved Organic Carbon SM 9060A (mg/L)							8.96	1		8.2	1		2.9	1		6.6	1		3.9	1	
Alkalinity SM 2320B (mg/L)							145	1.25		142	1.25		175	1		170	5	J	150	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							64	10		63	1.25		78	0.4		76	2.2		64	0.22	

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW130R			NW130R			NW130R			NW130R			NW130R			NW130			NW130		
COLLECT DATE	3/4/2008			3/6/2007			3/8/2006			3/8/2005			3/16/2004			3/11/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	0.07	0.05		0.23	0.2		<	0.2	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	1.1	1		1	0.2		0.77	0.2		1.5	0.43	
Nitrate/Nitrite USEPA 353.2 (mg/L)	2.2	0.5		2.5	1		5.2	0.25		2.2	0.05		6.9	1		19	0.5		13	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	0.7	1	J	<	1	U	<	1.0	U
Sulfate USEPA 9056A (mg/L)	220	20		160	10		210	20		130	10		150	10		100	25		54	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.8	1		6.1	1		4.8	1		5	1		1.9	1		3.4	1.0		2.8	1.0	
Alkalinity SM 2320B (mg/L)	110	2		150	8		140	8		160	8		180	5		180	5		170	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	48	0.88		65	0.88		63	0.88		70	0.1		79	1.2		79	1		75	1.0	

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-30
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW130			NW130			NW130			NW130		
COLLECT DATE	3/14/2001			3/13/2000			3/18/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.132	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	32.3	1		8.26	1		6.6	1		10.1	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	145	5		40.2	2		31.6	5		37.9	2	
Dissolved Organic Carbon SM 9060A (mg/L)	8.40	5		<	5	U	15.8	5		12.4	5	
Alkalinity SM 2320B (mg/L)	179	5		194	5		142	5		128	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	78.8	5		85.4	2.2		62.5	2.2		56.3	2.2	

Notes:
*NW130 was abandoned and replaced by NW130R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW131R			NW131R			NW131R			NW131R			NW131R			NW131R			NW131R		
COLLECT DATE	None			None			3/6/2013			3/1/2012			3/1/2011			3/8/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	0.051	0.25	J	<	0.1	U	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			0.814	1	J	0.881	1	J	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			15.6	0.1		19	0.1		17	0.1		18	0.5		19	0.5	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.401	2	J	0.4	2	J	0.4	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							23.4	1		136	5		139	5		120	25		110	20	
Dissolved Organic Carbon SM 9060A (mg/L)							3.93	1		1.6	1		2.4	1		1.7	1		3.7	1	
Alkalinity SM 2320B (mg/L)							110	1.25		88	1.25		88	1		100	5		110	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							49	10		39	1.25		39	0.4		44	2.2		50	0.22	

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW131R			NW131R			NW131R			NW131R			NW131R			NW131			NW131		
COLLECT DATE	3/4/2008			3/6/2007			3/8/2006			3/9/2005			3/9/2004			3/11/2003			3/13/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	0.05	U	0.13	0.2	J	<	0.22	U	<	0.20	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.1	0.2		0.38	0.20		0.56	0.50	
Nitrate/Nitrite USEPA 353.2 (mg/L)	19	0.5		16	1		8.3	0.5		15	0.05		15	1		9.2	0.5		16	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	0.8	1	J	<	1.0	U
Sulfate USEPA 9056A (mg/L)	96	50		98	10		82	20		57	10		59	2		40	1		45	2.0	
Dissolved Organic Carbon SM 9060A (mg/L)	2.6	1		2.1	1		1.9	1		2	1		2	1		1.7	1.0		2.3	1.0	
Alkalinity SM 2320B (mg/L)	100	2		120	8		96	8		96	8		90	5		110	5		86	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	44	0.88		55	0.88		42	0.88		42	0.1		40	1.4		48	1		38	1.0	

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-31
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW131			NW131			NW131			NW131		
COLLECT DATE	3/14/2001			3/13/2000			3/18/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U	0.250	0.1		<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	20.6	0.5		21.7	1		19.5	1		20.9	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	39.4	5		38.5	2		43.3	5		34.2	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	6.00	5		16.0	5		10.0	5	
Alkalinity SM 2320B (mg/L)	78.2	5		139	5		90	5		83.5	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	34.4	5		61.2	2.2		39.6	2.2		36.7	2.2	

Notes:
*NW131 was abandoned and replaced by NW131R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW132R			NW132R			NW132R			NW132R			NW132R			NW132R			NW132R		
COLLECT DATE	None			None			3/6/2013			3/1/2012			3/1/2011			3/8/2010			3/4/2009		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)							<	0.25	U	<	0.25	UJ	<	0.25	UJ	0.051	0.1	J	<	0.05	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	**Abandoned**			**Not Sampled**			<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2020**			**in 2014, 2015, 2016,**			28	0.1		33	0.1		34	0.1		22	0.5		38	1	
Sulfide SM 9034 (mg/L)				**2017, 2018, 2019**			0.2	2	J	0.4	2	J	0.2	2	J	<	4	U	<	1	U
Sulfate USEPA 9056A (mg/L)							62.8	1		73	1		64	1		70	25		55	20	
Dissolved Organic Carbon SM 9060A (mg/L)							4.26	1		3.5	1		3.4	1		7.7	1		4.4	1	
Alkalinity SM 2320B (mg/L)							120	1.25		98	1.25		108	1		110	5		98	8	
Methane RSK-175 (µg/L)							<	5	U	<	5	U	<	5	UJ	<	5	U	<	0.31	U
Carbon Dioxide SM 2320B (mg/L)[1]							53	10		43	1.25		48	0.4		49	2.2		43	0.22	

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW132R			NW132R			NW132R			NW132R			NW132R			NW132			NW132		
COLLECT DATE	3/4/2008			3/6/2007			3/8/2006			3/9/2005			3/9/2004			3/11/2003			3/12/2002		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	0.05	0.05		0.12	0.2	J	<	0.2	U	0.07	0.20	J
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.4	0.2		0.35	0.2		0.15	0.20	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	39	1		31	1		15	0.5		23	0.5		32	1		33	1	J	37	1.0	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	0.7	1	J	<	1.0	U
Sulfate USEPA 9056A (mg/L)	65	5		56	20		76	20		46	10		48	2		46	1		47	1.0	
Dissolved Organic Carbon SM 9060A (mg/L)	3.3	1		3.6	1		4.7	1		3.1	1		2.8	1		2.7	1.0		2.9	1.0	
Alkalinity SM 2320B (mg/L)	96	2		110	8		110	8		110	8		100	5		140	5		120	5.0	
Methane RSK-175 (µg/L)	<	1.7	U	<	0.87	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U	<	2.0	U
Carbon Dioxide SM 2320B (mg/L)[1]	42	0.88		48	0.88		48	0.88		48	0.1		44	1		62	1		53	1.0	

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.4-32
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132R-NATURAL ATTENUATION PARAMETERS

FIELD ID	NW132			NW132			NW132			NW132		
COLLECT DATE	3/14/2001			3/13/2000			3/18/1999			6/25/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS												
Ammonia USEPA 350.1 (mg/L)	0.175	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.189	0.1		<	0.1	U	<	0.1	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	35.9	1		35.7	2		25.8	1		25.4	1	
Sulfide SM 9034 (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Sulfate USEPA 9056A (mg/L)	44.3	5		41.3	2		43.5	5		36.7	2	
Dissolved Organic Carbon SM 9060A (mg/L)	<	5	U	5.50	5		15.4	5		10.0	5	
Alkalinity SM 2320B (mg/L)	101	5		103	5		117	5		122	5	
Methane RSK-175 (µg/L)	<	1	U	<	1	U	<	1	U	<	1	U
Carbon Dioxide SM 2320B (mg/L)[1]	44.4	5		45.3	2.2		51.5	2.2		53.7	2.2	

Notes:
*NW132 was abandoned and replaced by NW132R in 2004.

Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LOQ = limit of quantification
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

E.2 Natural Attenuation Parameters

E.2.5 OU1 OFF-POST FEEDLOT WELLS

WELL	TABLE
CA350	E.2.5-1
CA351	E.2.5-2
CA352	E.2.5-3
CA360	E.2.5-4
CA361	E.2.5-5
CA362	E.2.5-6
CA370	E.2.5-7
CA380	E.2.5-8
CA381	E.2.5-9
CA382	E.2.5-10
CA390	E.2.5-11

TABLE E.2.5-1
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA350-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA350			CA350			CA350			CA350			CA350			CA350			CA350		
COLLECT DATE	None			3/20/2013			3/7/2012			3/9/2011			3/11/2010			3/11/2009			3/10/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				63	4.9		12	5		<	5	U	22	5		0.31	0.31		<	1.7	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				2.29	1		1.9	1		1.7	1		1.1	1		<	1	U	1.2	1	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			1.24	0.25		0.208	0.25	J	<	0.25	UJ	0.087	0.1	J	<	0.05	U	0.11	0.05	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	0.509	0.1		0.31	0.1		0.27	0.1		0.74	0.5		5.2	0.5	J
Alkalinity SM 2320B (mg/L)				310	1.25		525	1.25		545	1		430	5		340	20		290	2	
Carbon Dioxide SM 2320B (mg/L)[1]				138	10		233	1.25		242	0.4		190	2.2		150	0.22		128	0.88	
Sulfate USEPA 300.1 (mg/L)				134	10		74	1		135	5		82	25		91	20		77	10	
Sulfide SM 4500S-2F (mg/L)				12	2		2.4	2		0.2	2	J	0.96	4	J	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				10.4	1		9.4	1		13	1		8.9	1		7.9	1		7.1	1	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-1
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA350-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA350			CA350			CA350			CA350			CA350			CA350			CA350		
COLLECT DATE	None			None			None			None			3/24/2003			3/26/2002			4/2/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL		Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)													31	2		190	40		1600	50	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)													0.8	0.20		1.1	0.40		0.976	0.1	
Ammonia USEPA 350.1 (mg/L)	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			0.26	0.20		0.17	0.20	J	0.133	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			4.50	0.10		0.24	0.10		0.784	0.5	
Alkalinity SM 2320B (mg/L)													330	5.0		370	5.0		328	5	
Carbon Dioxide SM 2320B (mg/L)[1]													145	1.0		160	1.0		144	5	
Sulfate USEPA 300.1 (mg/L)													51	5.0		35	5.0		45.9	25	J
Sulfide SM 4500S-2F (mg/L)													<	1.0	U	<	1.0	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)													6.1	1.0		7.9	1.0		5.60	5	J
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-1
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA350-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA350			CA350			CA350		
COLLECT DATE	3/22/2000			4/1/1999			6/17/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Methane RSK-175 (µg/L)	720	50		953	100	J	245	10	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.65	0.1		1.20	0.1		1.09	0.1	
Ammonia USEPA 350.1 (mg/L)	0.431	0.1		0.177	0.1		0.245	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U	0.20	1	J
Alkalinity SM 2320B (mg/L)	389	5		455	5		383	5	
Carbon Dioxide SM 2320B (mg/L)[1]	171	2.2		200	2.2		169	2.2	
Sulfate USEPA 300.1 (mg/L)	87.8	2		49.9	5		96.7	2	
Sulfide SM 4500S-2F (mg/L)	<	1	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	18.8	5	J	14.8	5		15.7	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)	0.12	0.02	J	0.53	0.15				
Chloride USEPA 300.0 (mg/L)	42	20							

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-2
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA351-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA351			CA351			CA351			CA351			CA351			CA351			CA351		
COLLECT DATE	None			3/20/2013			3/7/2012			3/9/2011			3/11/2010			3/11/2009			3/10/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				33	4.9		9.9	5		7.1	5		20	5		10	0.31		13	1.7	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				4.19	1		2.4	1		1.6	1		1.7	1		2.1	1		2.1	1	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			2.39	0.25		0.956	0.25		0.494	0.25		0.53	0.1		0.78	0.05		0.6	0.05	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			0.115	0.1		0.269	0.1		1.4	0.1		1.6	0.1		0.54	0.05		0.24	0.05	
Alkalinity SM 2320B (mg/L)				490	1.25		330	1.25		315	1		370	5		350	20		330	2	
Carbon Dioxide SM 2320B (mg/L)[1]				218	1.25		147	1.25		140	0.4		160	2.2		150	0.22		145	0.88	
Sulfate USEPA 300.1 (mg/L)				101	5		84	5		87	2		78	25		70	20		64	10	
Sulfide SM 4500S-2F (mg/L)				<	2	U	0.2	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				7.44	1		8.0	1		7.3	1		7.7	1		7.6	1		9.3	1	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-2
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA351-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA351			CA351			CA351			CA351			CA351			CA351			CA351		
COLLECT DATE	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			4/2/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	9.1	0.87		9.1	0.87	J	33	0.87		4	2		<	2	U	<	2.0	U	<	1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.2	1		1.1	1	J	<	1	U	1	0.2	J	0.8	0.2		1.2	0.40		0.656	0.1	J
Ammonia USEPA 350.1 (mg/L)	0.26	0.05		0.29	0.05		0.17	0.05		<	0.37	U	0.21	0.2		0.06	0.20	J	0.180	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.15	0.05		<	0.05	U	<	0.05	U	<	1	U	0.42	0.1		0.40	0.10		0.687	0.5	
Alkalinity SM 2320B (mg/L)	370	8		310	8		300	8		310	5		350	5		330	5.0		298	5	
Carbon Dioxide SM 2320B (mg/L)[1]	160	0.88		140	0.88		130	0.1		136	1	J	154	1	J	150	1.0		131	5	
Sulfate USEPA 300.1 (mg/L)	44	20		49	20		46	20		50	2		45	5		76	5.0	J	46	25	
Sulfide SM 4500S-2F (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	2.1	1		<	1.0	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	7.5	1		7.7	1		6.5	1		7.4	1		6.5	1		7.0	1.0		7.00	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-2
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA351-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA351			CA351			CA351		
COLLECT DATE	3/22/2000			4/1/1999			6/17/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Methane RSK-175 (µg/L)	<	1	U	<	1	UJ	<	1	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.453	0.1		0.825	0.1		0.615	0.1	
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	0.05	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.47	1		1.89	1		2.72	1	
Alkalinity SM 2320B (mg/L)	267	5		333	5		301	5	
Carbon Dioxide SM 2320B (mg/L)[1]	117	2.2		147	2.2		132	2.2	
Sulfate USEPA 300.1 (mg/L)	29.5	2		32.5	5		38.5	0.4	
Sulfide SM 4500S-2F (mg/L)	<	1	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	10.2	5	J	9.90	5		9.3	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)	0.07	0.02		<	0.21	U			
Chloride USEPA 300.0 (mg/L)	39	20							

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-3
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA352-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA352			CA352			CA352			CA352			CA352			CA352			CA352		
COLLECT DATE	None			3/20/2013			3/7/2012			3/9/2011			3/11/2010			3/11/2009			3/10/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				56	4.9		24	5		21	5		53	5		19	0.31		6	1.7	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				<	1	U	<	1	U	0.938	1	J	0.86	1	J	<	1	U	1.3	1	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			1.19	0.25		0.203	0.25	J	<	0.25	UJ	0.098	0.1	J	0.06	0.05		0.11	0.05	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			1.59	0.1		<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.5	U	<	0.05	U
Alkalinity SM 2320B (mg/L)				320	1.25		320	1.25		315	1		330	5		320	20		300	2	
Carbon Dioxide SM 2320B (mg/L)[1]				142	1.25		142	1.25		140	0.4		150	2.2		140	0.22		132	0.88	
Sulfate USEPA 300.1 (mg/L)				77	5		94	5		90	2		81	25		63	20		58	10	
Sulfide SM 4500S-2F (mg/L)				0.2	2	J	0.8	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				7.85	1		6.9	1		6.7	1		6.5	1		6.5	1		6.2	1	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-3
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA352-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA352			CA352			CA352			CA352			CA352			CA352			CA352		
COLLECT DATE	3/19/2007			3/29/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			4/2/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	14	0.87		36	0.87		110	0.87		14	2		<	2	U	6.0	2.0		1.1	1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	1	U	<	1	U	<	1	U	0.34	0.2		<	0.32	U	0.85	0.40		1.570	0.1	
Ammonia USEPA 350.1 (mg/L)	<	0.05	U	<	0.05	U	0.08	0.05		<	0.21	U	<	0.2	U	<	0.20	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	<	0.05	U	<	1	U	<	0.1	U	<	0.10	U	<	0.5	U
Alkalinity SM 2320B (mg/L)	320	8		320	8		300	8		260	5		310	5		240	5.0		201	5	
Carbon Dioxide SM 2320B (mg/L)[1]	140	0.88		140	0.88		130	0.1		114	1		136	1		110	1.0		88.4	5	
Sulfate USEPA 300.1 (mg/L)	44	20		49	10		43	20		48	2		45	5		44	5.0		52.4	25	
Sulfide SM 4500S-2F (mg/L)	<	1	U	<	1	U	<	1	U	<	1	U	1.8	1		<	1.0	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	6.5	1		6.7	1		5.2	1		<	3.2	U	<	2.5	U	2.0	1.0		5.90	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-3
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA352-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA352			CA352			CA352		
COLLECT DATE	3/22/2000			4/1/1999			6/17/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Methane RSK-175 (µg/L)	<	1.1	U	2.31	1		2.94	1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	0.172	0.1		0.330	0.1		0.255	0.1	
Ammonia USEPA 350.1 (mg/L)	<	0.1	U	<	0.1	U	0.03	0.1	J
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	UJ	<	1	U
Alkalinity SM 2320B (mg/L)	218	5		287	5		245	5	
Carbon Dioxide SM 2320B (mg/L)[1]	96.0	2.2		126	2.2		108	2.2	
Sulfate USEPA 300.1 (mg/L)	33.8	2		45	5		51.1	0.4	
Sulfide SM 4500S-2F (mg/L)	<	1	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	10.4	5		16.5	5		9.4	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)				26	15				
Chloride USEPA 300.0 (mg/L)									

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-4
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA360-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA360			CA360			CA360			CA360			CA360			CA360			CA360		
COLLECT DATE	None			3/21/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				6000	97		3000	250		5700	250		9600	100		2400	3.1		2300	17	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				166	1		70	1		121	1		52	20		130	10		79	8	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			90	0.25		53	0.25		117	0.25		54	1		87	5		74	2.5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	3.3	0.1		0.086	0.1	J	0.8	0.1		<	0.05	U	0.13	0.05	
Alkalinity SM 2320B (mg/L)				1310	1.25		630	1.25		1400	1		730	5		1100	20		900	2	
Carbon Dioxide SM 2320B (mg/L)[1]				582	1.25		280	1.25		622	0.4		320	2.2		480	0.22		396	0.88	
Sulfate USEPA 300.1 (mg/L)				137	5		33	10		2	2		38	5		7.4	1		<	1	U
Sulfide SM 4500S-2F (mg/L)				0.802	2	J	0.4	2	J	1	2	J	<	4	U	5	1		5	1	
Dissolved Organic Carbon SM 5310B (mg/L)				84.5	1		62	1		132	1		67	4		110	10		88	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-4
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA360-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA360			CA360			CA360			CA360			CA360			CA360			CA360		
COLLECT DATE	3/19/2007			3/20/2006			None			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	1700	8.7		3400	8.7					4100	20	J	4900	44		5200	40		5600	1000	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	77	4		150	10	J				85	10		100	10		90	20		104	10	
Ammonia USEPA 350.1 (mg/L)	53	2.5		95	2.5		**No 2005 Sample**			78	5		120	10		54	10		54.3	10	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.06	0.05		0.066	0.05		**Well Dry**			4	0.1		0.36	0.1		0.15	0.10		<	2	U
Alkalinity SM 2320B (mg/L)	1000	40		1500	40					1100	5		1400	10		1200	10		749	10	
Carbon Dioxide SM 2320B (mg/L)[1]	450	0.88		660	0.88					484	1		616	1		530	1.0		330	10	
Sulfate USEPA 300.1 (mg/L)	<	100	U	1.8	1					60	2		82	5		120	5.0		6.13	2.5	
Sulfide SM 4500S-2F (mg/L)	7	1		6	1					2.5	1		7.5	1		2.0	1.0		6.68	2	
Dissolved Organic Carbon SM 5310B (mg/L)	150	40		210	40					120	10		160	20		130	10		87.6	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-4
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA360-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA360			CA360			CA360		
COLLECT DATE	3/22/2000			4/2/1999			6/17/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Methane RSK-175 (µg/L)	2300	100		2350	200		3150	200	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	93.8	5.0		100	10		83.3	5	
Ammonia USEPA 350.1 (mg/L)	72.2	5.0		93.4	5		88.3	5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U	<	1	U
Alkalinity SM 2320B (mg/L)	505	5		1140	5		886	5	
Carbon Dioxide SM 2320B (mg/L)[1]	222	2.2		500	2.2		390	2.2	
Sulfate USEPA 300.1 (mg/L)	2.47	2		32.5	5		9.75	0.4	
Sulfide SM 4500S-2F (mg/L)	6.38	1		7.97	5		3.76	1	
Dissolved Organic Carbon SM 5310B (mg/L)	157.2	15		169	10		163	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)	9	1		27	15				
Chloride USEPA 300.0 (mg/L)	550	200							

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-5
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA361-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA361			CA361			CA361			CA361			CA361			CA361			CA361		
COLLECT DATE	None			3/21/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				21000	100		4500	250		6400	500		15000	250		5200	26		3200	17	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				113	1		75	1		81	1		87	50		120	10		170	16	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			56.6	0.25		55	0.25		73	0.25		71	1		83	5		120	5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	<	0.1	U	<	0.1	UJ	<	0.1	U	<	0.05	U	0.17	0.05	
Alkalinity SM 2320B (mg/L)				1200	1.25		1040	1.25		1240	1		1200	5		1100	40		1600	2	
Carbon Dioxide SM 2320B (mg/L)[1]				533	10		462	1.25		551	0.4		550	2.2		490	0.22		704	0.88	
Sulfate USEPA 300.1 (mg/L)				75.3	5		39	10		21	2		1.1	5	J	13	1		50	20	
Sulfide SM 4500S-2F (mg/L)				1.2	2	J	0.8	2	J	1.2	2	J	<	4	U	7	1		6	1	
Dissolved Organic Carbon SM 5310B (mg/L)				84.6	1		102	1		124	1		150	5		140	10		190	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-5
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA361-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA361			CA361			CA361			CA361			CA361			CA361			CA361		
COLLECT DATE	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	8900	17		7700	8.7		4100	17		4700	80		5900	44		5600	40		8100	1000	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	150	8		160	10	J	140	8		110	10		95	10		97	20	J	111	10	
Ammonia USEPA 350.1 (mg/L)	110	5		91	2.5		120	5		86	10	J	0.73	0.2		57	10		57.0	10	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1	0.05		0.18	0.05		<	0.05	U	0.89	0.1	J	0.42	0.1		0.12	0.10		<	2	U
Alkalinity SM 2320B (mg/L)	1500	40		1500	40		1500	100		1200	5		1200	10		1000	10		729	10	
Carbon Dioxide SM 2320B (mg/L)[1]	660	0.88		660	0.88		660	0.1		528	1		528	1		440	1.0		321	10	
Sulfate USEPA 300.1 (mg/L)	<	100	U	33	10		21	10		85	2		31	5		5.9	0.20		3.49	2.5	
Sulfide SM 4500S-2F (mg/L)	7	1		6	1		5	1		3.6	1		7.6	1		1.0	1.0		2.53	2	
Dissolved Organic Carbon SM 5310B (mg/L)	240	10		300	40		270	200		200	5		7.9	1		110	10		136	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																4	1		28	15	
Chloride USEPA 300.0 (mg/L)																380	200				

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-5
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA361-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA361		
COLLECT DATE	3/22/2000		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Methane RSK-175 (µg/L)	2300	100	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	73.7	5.0	
Ammonia USEPA 350.1 (mg/L)	59.2	5.0	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Alkalinity SM 2320B (mg/L)	441	5	
Carbon Dioxide SM 2320B (mg/L)[1]	194	2.2	
Sulfate USEPA 300.1 (mg/L)	3.05	2	
Sulfide SM 4500S-2F (mg/L)	5.12	1	
Dissolved Organic Carbon SM 5310B (mg/L)	159.6	15	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)			
Chloride USEPA 300.0 (mg/L)			

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-6
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA362-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA362			CA362			CA362			CA362			CA362			CA362			CA362		
COLLECT DATE	None			3/21/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/10/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				130	4.9		200	5		2000	100		1100	25		890	3.1		540	1.7	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				10.6	1		13	1		16	1		18	5		19	1		26	2	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			5.38	0.25		7.1	0.25		17	0.25		17	0.5		17	1		22	1.3	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	<	0.1	U	0.396	0.1		<	0.1	U	<	0.05	U	0.27	0.05	
Alkalinity SM 2320B (mg/L)				350	1.25		335	1.25		395	1		440	5		400	20		480	2	
Carbon Dioxide SM 2320B (mg/L)[1]				156	10		149	1.25		176	0.4		190	2.2		180	0.22		211	0.88	
Sulfate USEPA 300.1 (mg/L)				128	10		103	5		66	1		53	25		400	20		29	10	
Sulfide SM 4500S-2F (mg/L)				0.802	2	J	0.2	2	J	0.4	2	J	<	4	U	1	1		1	1	
Dissolved Organic Carbon SM 5310B (mg/L)				4.46	1		9.5	1		18	1		14	1		13	1		23	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-6
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA362-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA362			CA362			CA362			CA362			CA362			CA362			CA362		
COLLECT DATE	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	1300	8.7		900	4.3		5100	17		4000	80		5000	44		76	2.0		450	20	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	40	4.0		44	10	J	72	4		100	10		19	2		4.2	0.40		6.61	0.4	
Ammonia USEPA 350.1 (mg/L)	34	2.5		36	2.5		94	5		86	10		9.3	1		3.1	0.20		3.45	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	1.4	1		0.082	0.05		<	0.05	U	0.82	0.1		0.29	0.1		0.49	0.10		<	0.5	U
Alkalinity SM 2320B (mg/L)	590	20		540	20		1100	100		1200	5		730	5		350	5.0		266	5	
Carbon Dioxide SM 2320B (mg/L)[1]	260	0.88		240	0.88		480	0.1		528	1		321	1		150	1.0		117	5	
Sulfate USEPA 300.1 (mg/L)	<	20	U	16	10		<	1	U	0.75	0.2		1.5	0.2		53	5.0		50	25	
Sulfide SM 4500S-2F (mg/L)	3	1		3.2	1		6	1		4.9	1		2.6	1		<	1.0	U	3.25	2	
Dissolved Organic Carbon SM 5310B (mg/L)	40	5		54	4		330	160		190	5		100	20		6.6	1.0		11	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-6
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA362-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA362		
COLLECT DATE	3/22/2000		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Methane RSK-175 (µg/L)	14	1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	5.91	0.5	
Ammonia USEPA 350.1 (mg/L)	5.50	0.5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Alkalinity SM 2320B (mg/L)	245	5	
Carbon Dioxide SM 2320B (mg/L)[1]	108	2.2	
Sulfate USEPA 300.1 (mg/L)	38.2	2	
Sulfide SM 4500S-2F (mg/L)	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	<	5	U
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)			
Chloride USEPA 300.0 (mg/L)			

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-7
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA370-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA370[2]		
COLLECT DATE	6/17/1998		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Methane RSK-175 (µg/L)	3160	100	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	45.1	5	
Ammonia USEPA 350.1 (mg/L)	29.5	5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Alkalinity SM 2320B (mg/L)	628	5	
Carbon Dioxide SM 2320B (mg/L)[1]	276	2.2	
Sulfate USEPA 300.1 (mg/L)	34.4	2	
Sulfide SM 4500S-2F (mg/L)	0.51	1	J
Dissolved Organic Carbon SM 5310B (mg/L)	23.0	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)			
Chloride USEPA 300.0 (mg/L)			

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

[2]Not part of LTM program.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
LTM = long-term monitoring
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-8
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA380-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA380			CA380			CA380			CA380			CA380			CA380			CA380		
COLLECT DATE	None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/11/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				1800	24		1600	100		3400	100		4800	50		1000	3.1		330	1.7	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				95.9	1		91	1		92	1		98	10		84	5		120	20	J
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			54.5	0.25		69	0.25		101	0.25		87	2		71	5		94	5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	0.463	0.1		0.131	0.1		<	0.1	U	0.98	0.5		0.089	0.05	
Alkalinity SM 2320B (mg/L)				779	1.25		615	1.25		728	1		800	5		620	40		840	10	
Carbon Dioxide SM 2320B (mg/L)[1]				346	10		273	1.25		324	0.4		350	2.2		270	0.22		370	0.88	
Sulfate USEPA 300.1 (mg/L)				76.2	5		54	5		50	1		27	5		12	10		15	10	
Sulfide SM 4500S-2F (mg/L)				0.601	2	J	0.6	2	J	0.4	2	J	<	4	U	4	1		2	1	
Dissolved Organic Carbon SM 5310B (mg/L)				30.3	1		49	1		64	1		59	4		44	10		53	4	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-8
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA380-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA380			CA380			CA380			CA380			CA380			CA380			CA380		
COLLECT DATE	None			None			None			None			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)													2500	44		2200	40		2800	100	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)													100	10		99	20		127	50.0	
Ammonia USEPA 350.1 (mg/L)	**No 2007 Sample**			**No 2006 Sample**			**No 2005 Sample**			**No 2004 Sample**			110	10		93	10		87.1	10	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			**Well Dry**			**Well Dry**			**Well Dry**			0.3	0.1		0.12	0.60		<	2	U
Alkalinity SM 2320B (mg/L)													1100	10		460	10		653	10	
Carbon Dioxide SM 2320B (mg/L)[1]													484	1		200	1.0		287	10	
Sulfate USEPA 300.1 (mg/L)													50	5		42	5.0		32.8	25	
Sulfide SM 4500S-2F (mg/L)													6.4	1		1.1	1.0		6.50	2	
Dissolved Organic Carbon SM 5310B (mg/L)													80	20		13	1.0		66	10	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-8
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA380-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA380			CA380			CA380		
COLLECT DATE	3/22/2000			4/2/1999			6/17/1998		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS									
Methane RSK-175 (µg/L)	1500	100		1790	200		3860	200	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	90.6	5.0		98.4	10		76.1	5	
Ammonia USEPA 350.1 (mg/L)	86.8	5.0		94.5	5		66.8	5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U	<	1	U	<	1	U
Alkalinity SM 2320B (mg/L)	416	5		926	5		793	5	
Carbon Dioxide SM 2320B (mg/L)[1]	183	2.2		407	2.2		349	2.2	
Sulfate USEPA 300.1 (mg/L)	7.62	2		9.94	5		6.77	0.4	
Sulfide SM 4500S-2F (mg/L)	4.03	1		8.87	5		<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	103.6	10		88.2	5		68.7	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)									
Chloride USEPA 300.0 (mg/L)									

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-9
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA381-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA381			CA381			CA381			CA381			CA381			CA381			CA381		
COLLECT DATE	None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/11/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				260	4.9		1500	100		1000	100		5400	50		370	3.1		320	1.7	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				47.4	1		76	1		54	1		56	10		50	5		19	1	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			28.7	0.25		48	0.25		56	0.25		44	0.1		38	2.5		18	0.5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	<	0.1	U	0.116	0.1		<	0.1	U	<	0.5	U	0.33	0.05	
Alkalinity SM 2320B (mg/L)				569	1.25		740	1.25		575	1		760	5		560	40		300	4	
Carbon Dioxide SM 2320B (mg/L)[1]				253	10		329	1.25		256	0.4		330	2.2		250	0.22		132	0.88	
Sulfate USEPA 300.1 (mg/L)				114	5		125	5		19	1		72	25		24	20		55	10	
Sulfide SM 4500S-2F (mg/L)				0.401	2	J	0.6	2	J	0.2	2	J	<	4	U	4	1		<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				25.6	1		71	1		50	1		64	4		38	10		13	1	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-9
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA381-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA381			CA381			CA381			CA381			CA381			CA381			CA381		
COLLECT DATE	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	890	8.7		1900	4.3		1300	8.7		580	10		240	2		40	2.0		100	5	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	35	2		65	10	J	29	4		17	2		7.6	1		2.9	0.40		2.82	0.2	
Ammonia USEPA 350.1 (mg/L)	29	2.5		48	2.5		18	0.5		4	1		4.9	1		1.6	0.20		2.18	0.2	
Nitrate/Nitrite USEPA 353.2 (mg/L)	0.3	0.05		0.085	0.05		3.9	2.5		<	1	U	0.14	0.1		0.74	0.10		<	0.5	U
Alkalinity SM 2320B (mg/L)	460	8		640	20		490	8		400	5		380	5		240	5.0		246	5	
Carbon Dioxide SM 2320B (mg/L)[1]	200	0.88		280	0.88		220	0.1		176	1		167	1		110	1.0		108	5	
Sulfate USEPA 300.1 (mg/L)	<	100	U	37	10		26	10		47	2		42	5		48	5.0		51	25	
Sulfide SM 4500S-2F (mg/L)	1	1		2.3	1		3	1		<	1	U	4.2	1		<	1.0	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	38	2		71	4		38	1		42	2		28	2		6.2	1.0		<	5	U
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)				0.4	0.02		5.9	0.75													
Chloride USEPA 300.0 (mg/L)				110	100																

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-9
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA381-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA381		
COLLECT DATE	3/22/2000		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Methane RSK-175 (µg/L)	--	--	--
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	4.79	0.1	
Ammonia USEPA 350.1 (mg/L)	4.48	0.5	
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Alkalinity SM 2320B (mg/L)	243	5	
Carbon Dioxide SM 2320B (mg/L)[1]	107	2.2	
Sulfate USEPA 300.1 (mg/L)	32.3	2	
Sulfide SM 4500S-2F (mg/L)	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	14.9	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)			
Chloride USEPA 300.0 (mg/L)			

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-10
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA382-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA382			CA382			CA382			CA382			CA382			CA382			CA382		
COLLECT DATE	None			3/20/2013			3/6/2012			3/8/2011			3/9/2010			3/10/2009			3/11/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				4	4.9	J	70	5		10	5		350	5		65	0.31		6.4	1.7	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				1.4	1		3.2	1		0.848	1	J	1.2	1		1.5	1		1.7	1	
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			0.926	0.25		0.272	0.25		0.43	0.25		0.27	0.1		0.45	0.05		0.93	0.05	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			<	0.1	U	<	0.1	U	0.075	0.1	J	<	0.1	U	<	0.5	U	0.073	0.05	
Alkalinity SM 2320B (mg/L)				206	1.25		285	1.25		285	1		330	5		310	20		240	2	
Carbon Dioxide SM 2320B (mg/L)[1]				92	1.25		127	1.25		127	0.4		150	2.2		140	0.22		106	0.88	
Sulfate USEPA 300.1 (mg/L)				53	1		67	1		77	1		68	25		78	20		39	10	
Sulfide SM 4500S-2F (mg/L)				0.2	2	J	0.2	2	J	<	2	U	<	4	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				2.52	1		6.1	1		5.1	1		6.3	1		6.7	1		2.6	1	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-10
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA382-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA382			CA382			CA382			CA382			CA382			CA382			CA382		
COLLECT DATE	3/19/2007			3/20/2006			3/23/2005			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)	440	4.3		930	4.3		1500	8.7		1300	20		<	2	U	<	2.0	U	1.2	1	
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	14	2		42	10	J	35	4		3.3	0.2		<	0.28	U	0.36	0.40	J	0.145	0.1	
Ammonia USEPA 350.1 (mg/L)	9.4	2.5		32	1.3		28	1		32	5		0.13	0.2	J	<	0.20	U	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	0.05	U	<	0.05	U	4	2.5		<	0.1	UJ	<	0.1	U	0.077	0.10	J	<	0.5	U
Alkalinity SM 2320B (mg/L)	410	8		500	20		520	8		430	5		250	5		230	5.0		201	5	
Carbon Dioxide SM 2320B (mg/L)[1]	180	0.88		220	0.88		230	1		189	1		110	1		100	1.0		88.4	5	
Sulfate USEPA 300.1 (mg/L)	<	50	U	55	10		26	10		29	2		31	5		29	5.0		39.6	25	
Sulfide SM 4500S-2F (mg/L)	1	1		1.8	1		3	1		<	1	U	1.6	1		<	1.0	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	27	2		55	4		57	4		34	1		<	1.2	U	1.2	1.0		<	5	U
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)				0.43	0.02		0.41	0.15													
Chloride USEPA 300.0 (mg/L)				120	100																

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-10
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA382-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA382		
COLLECT DATE	3/22/2000		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Methane RSK-175 (µg/L)	<	1.4	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	<	0.1	U
Ammonia USEPA 350.1 (mg/L)	<	0.1	U
Nitrate/Nitrite USEPA 353.2 (mg/L)	<	1	U
Alkalinity SM 2320B (mg/L)	240	5	
Carbon Dioxide SM 2320B (mg/L)[1]	106	2.2	
Sulfate USEPA 300.1 (mg/L)	27.5	2	
Sulfide SM 4500S-2F (mg/L)	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	8.8	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)			
Chloride USEPA 300.0 (mg/L)			

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-11
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA390-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA390			CA390			CA390			CA390			CA390			CA390			CA390		
COLLECT DATE	None			3/7/2013			3/6/2012			3/9/2011			3/18/2010			3/11/2009			3/11/2008		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				5.2	5		4	5	J	<	5	UJ	0.73	5	J	0.88	0.31		<	1.7	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				2.38	1		1.9	1		0.858	1	J	0.59	1	J	<	1	U	<	1	U
Ammonia USEPA 350.1 (mg/L)	**Abandoned**			0.175	0.25	J	<	0.25	U	<	0.25	UJ	0.14	0.1	J	<	0.05	U	0.21	0.05	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**2013**			15.4	0.1		15	0.1		12	0.1		18	0.5		2	0.5		10	0.5	
Alkalinity SM 2320B (mg/L)				345	1.25		360	1.25		285	1		320	5		270	20		260	2	
Carbon Dioxide SM 2320B (mg/L)[1]				153	10		160	1.25		127	0.4		140	2.2		120	0.22		114	0.88	
Sulfate USEPA 300.1 (mg/L)				161	10		153	5		176	5		170	25		150	20		140	10	
Sulfide SM 4500S-2F (mg/L)				0.2	2	J	0.8	2	J	0.2	2	J	<	4	U	<	1	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				10.4	1		11	1		13	1		10	1		6.6	1		7.7	1	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)																					
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-11
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA390-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA390			CA390			CA390			CA390			CA390			CA390			CA390		
COLLECT DATE	None			3/29/2006			None			3/24/2004			3/24/2003			3/26/2002			3/29/2001		
	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)				<	0.87	U				<	2	U	<	2	U	<	2.0	U	<	1	U
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)				1.5	1					0.84	0.2		1.1	0.2	J	1.4	0.40	J	0.235	0.1	
Ammonia USEPA 350.1 (mg/L)	**No 2007 Sample**			0.098	0.05		**No 2005 Sample**			<	0.25	U	0.12	0.2	J	<	0.20	U	0.120	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	**Well Dry**			3.6	0.1		**Well Dry**			0.49	0.1		1.1	0.1		5.4	0.20		2.43	0.5	
Alkalinity SM 2320B (mg/L)				310	8					280	5		220	5	J	340	5.0		319	5	
Carbon Dioxide SM 2320B (mg/L)[1]				140	0.88					123	1		110	1	J	150	1.0		140	5	
Sulfate USEPA 300.1 (mg/L)				130	50					97	2		110	5		110	5.0		84.1	25	
Sulfide SM 4500S-2F (mg/L)				<	1	U				<	1	U	1	1		<	1.0	U	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)				8.7	1					7	1		8.3	1		9.1	1.0		15.3	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)							0.39	0.15													
Chloride USEPA 300.0 (mg/L)																					

Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

TABLE E.2.5-11
CORNHUSKER ARMY AMMUNITION PLANT
FEEDLOT WELL CA390-NATURAL ATTENUATION PARAMETERS

FIELD ID	CA390		
COLLECT DATE	3/22/2000		
	Result	RL	Qual
NATURAL ATTENUATION PARAMETERS			
Methane RSK-175 (µg/L)	<	1	UJ
Total Kjeldahl Nitrogen USEPA 351.2 (mg/L)	1.51	0.1	
Ammonia USEPA 350.1 (mg/L)	0.531	0.1	
Nitrate/Nitrite USEPA 353.2 (mg/L)	7.61	1	
Alkalinity SM 2320B (mg/L)	210	5	
Carbon Dioxide SM 2320B (mg/L)[1]	92.4	2.2	
Sulfate USEPA 300.1 (mg/L)	85.3	2	
Sulfide SM 4500S-2F (mg/L)	<	1	U
Dissolved Organic Carbon SM 5310B (mg/L)	18.7	5	
Phosphorus, Total as PO4 USEPA 365.2 (mg/L)			
Chloride USEPA 300.0 (mg/L)			

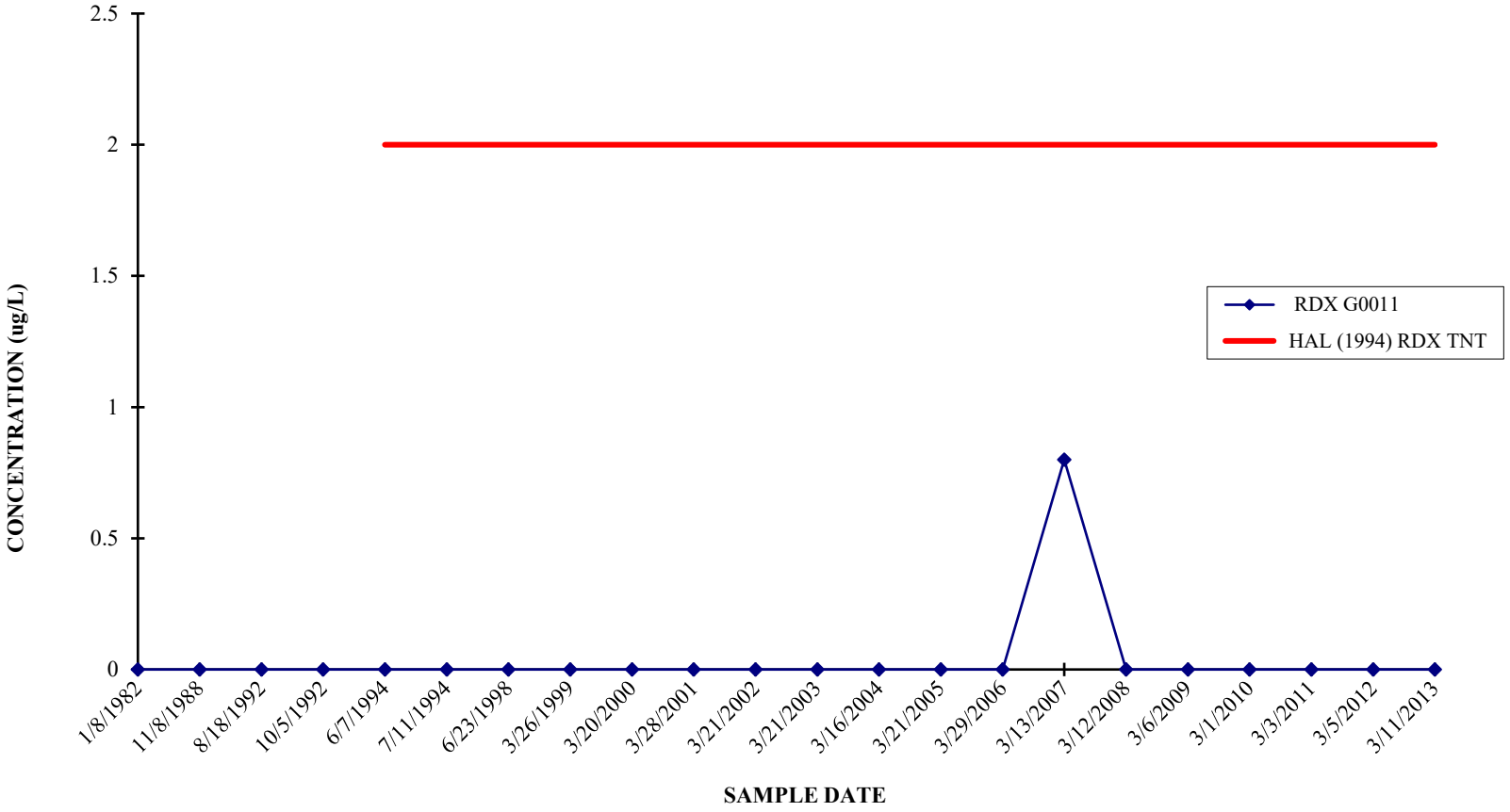
Notes:
Analysis methods listed are accurate for most current sampling event. Previous analysis methods may be different.

[1]Carbon dioxide calculated from alkalinity results. Values for 2003 and 2004 were modified to be consistent with previous years' results.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency

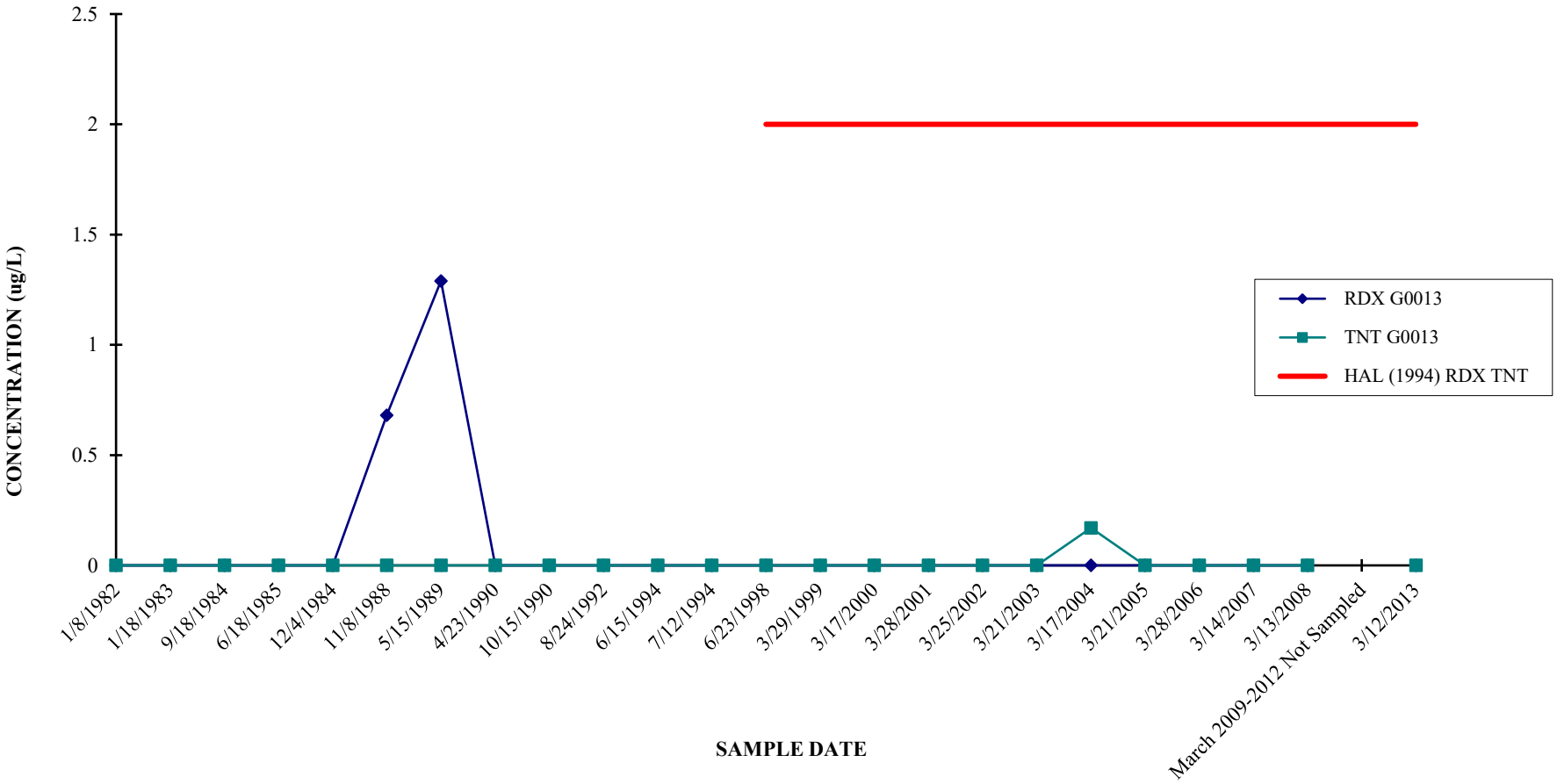
E.3 OU1 Explosives — Graphical (on enclosed CD)

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0011 - RDX



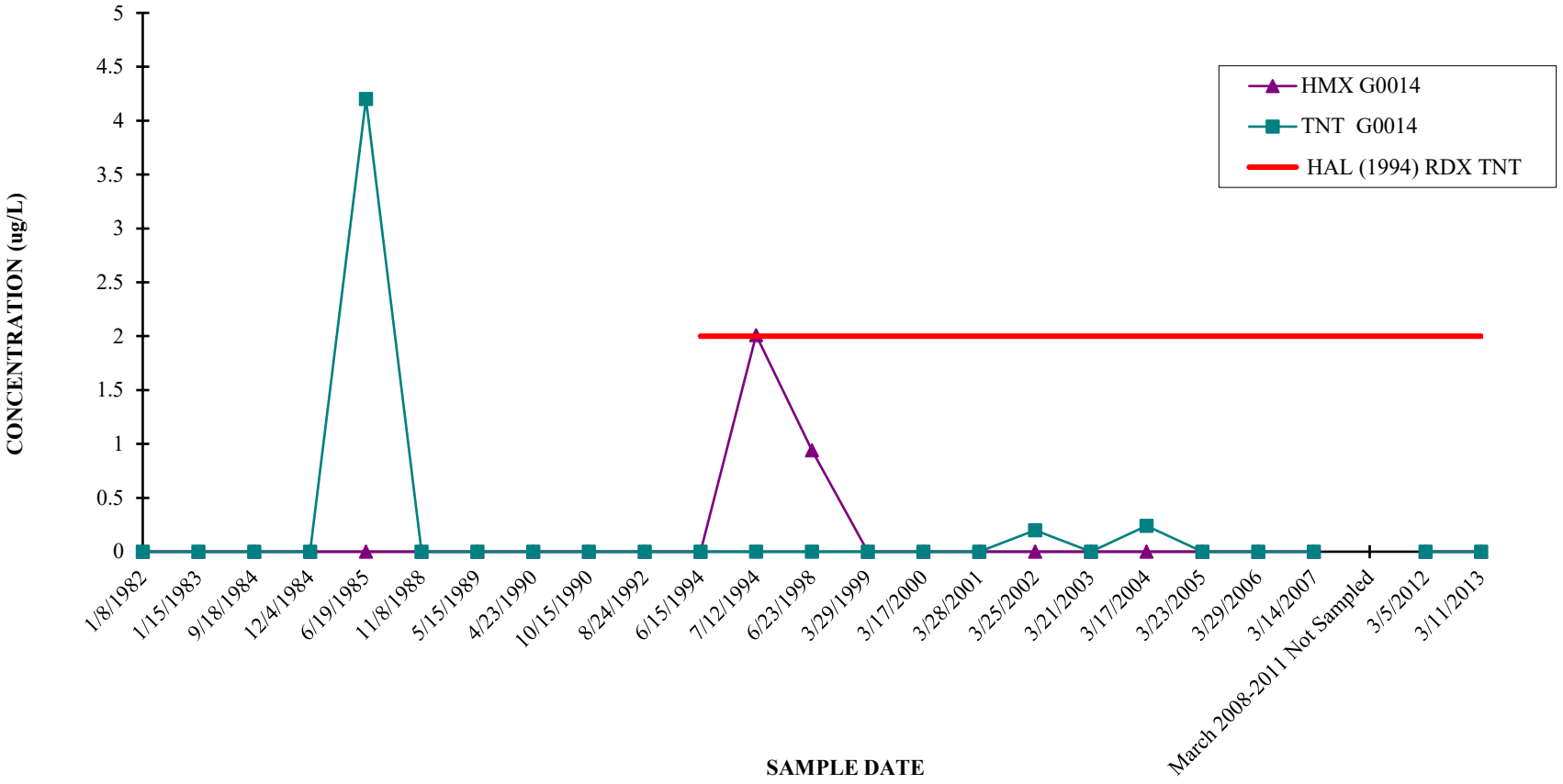
Note: Well G0011 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0013 - RDX AND TNT



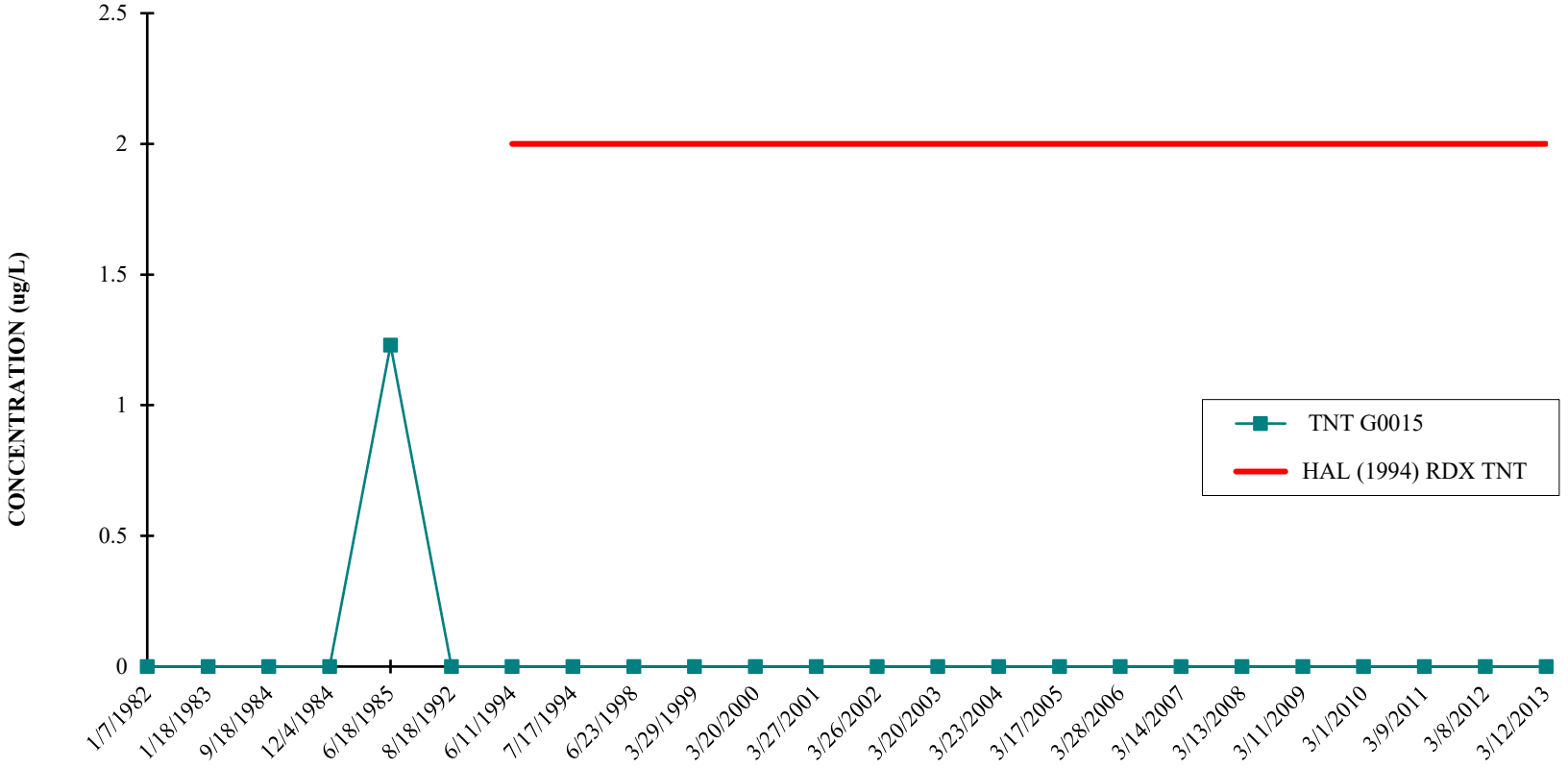
Note: Well G0013 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0014 - HMX AND TNT



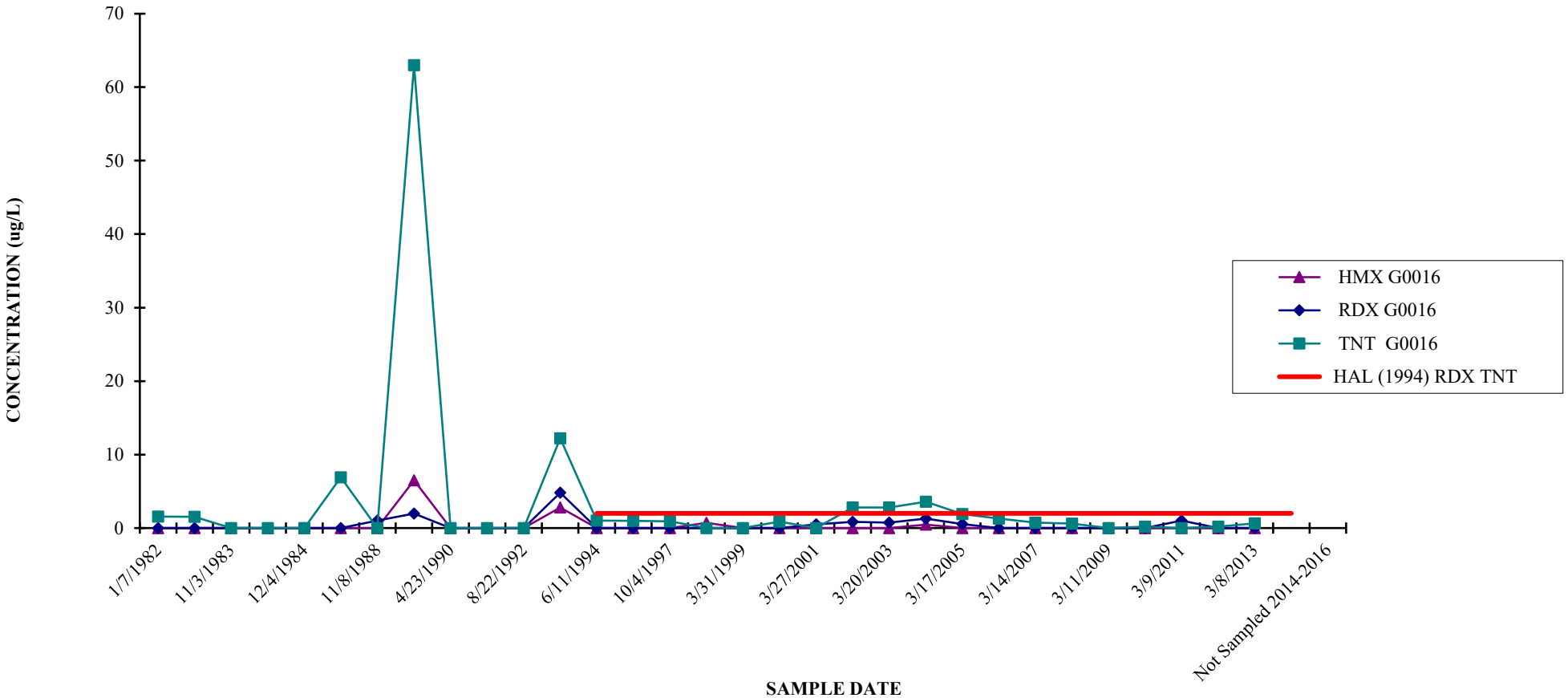
Note: Well G0014 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0015 - TNT



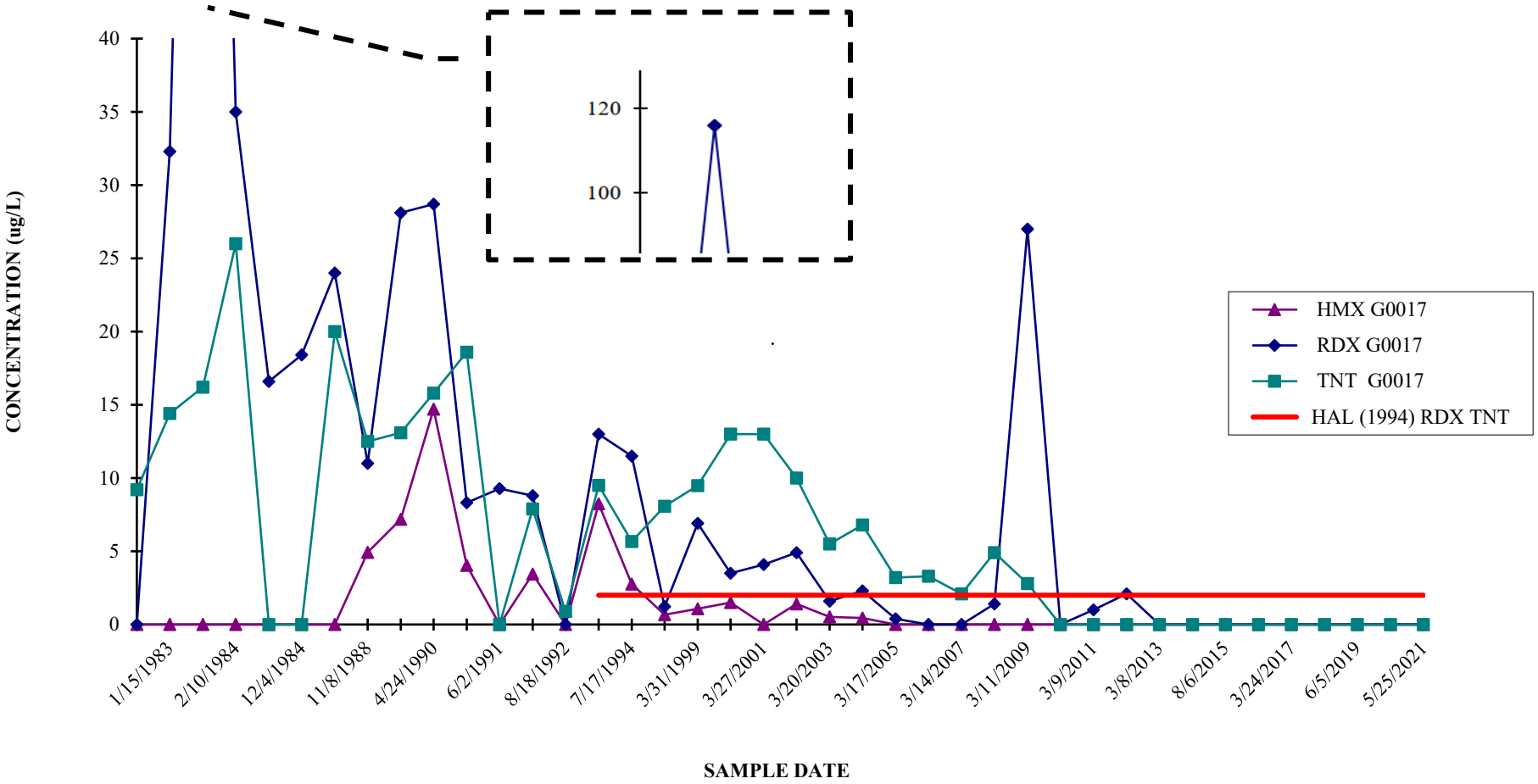
Note: Well G0015 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0016 - HMX, RDX, AND TNT

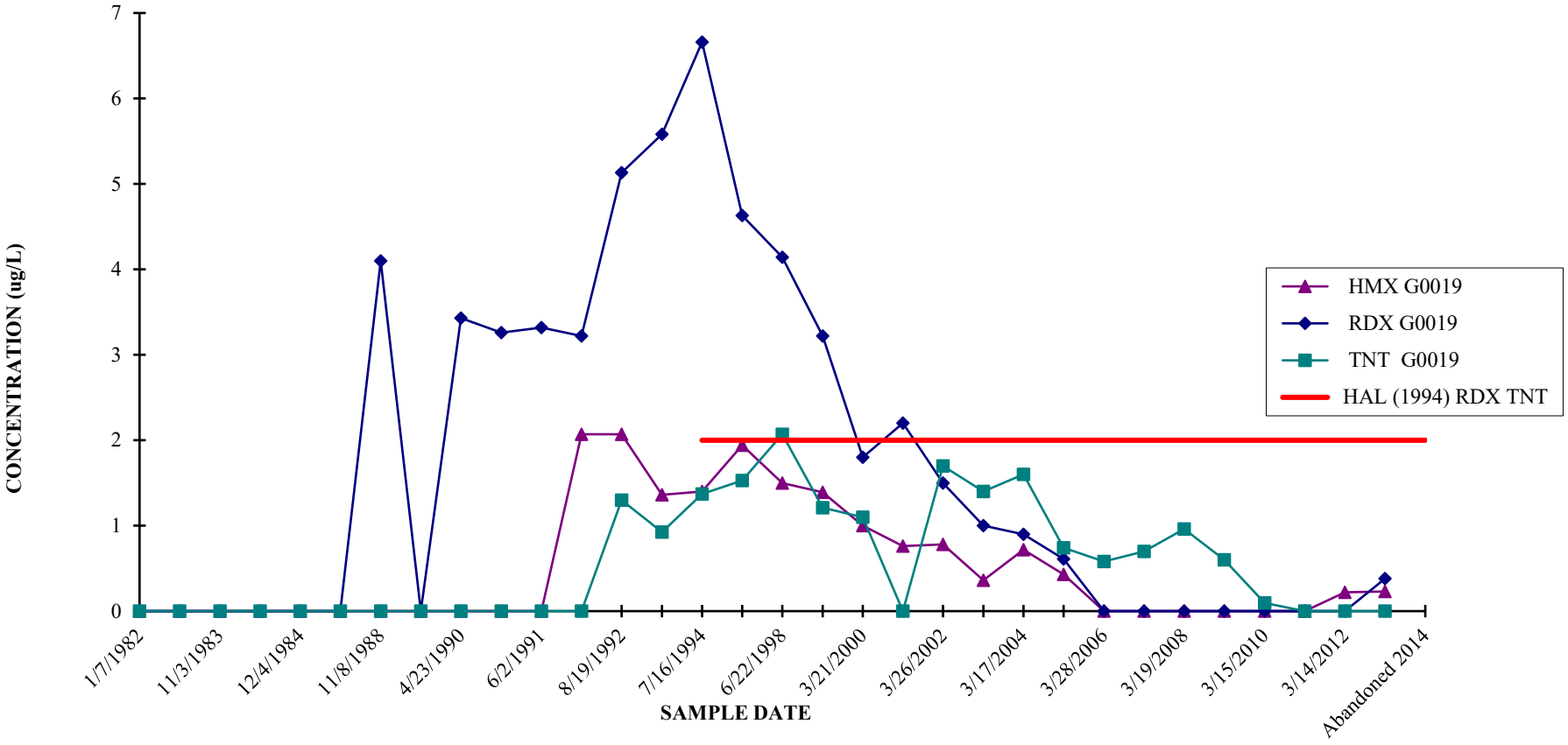


Note: Well G0016 was abandoned in 2016

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0017 - HMX, RDX, AND TNT

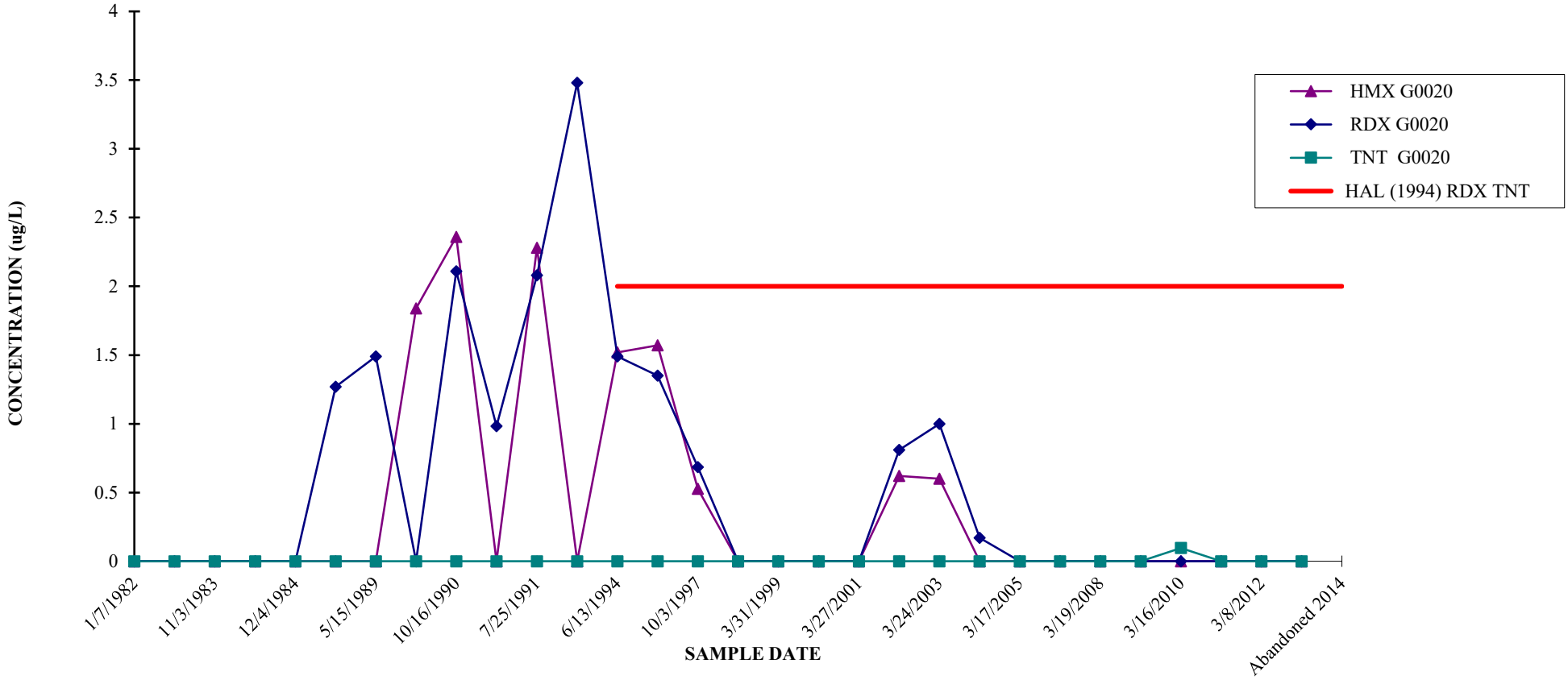


CORNHUSKER ARMY AMMUNITION PLANT
WELL G0019 - HMX, RDX, AND TNT



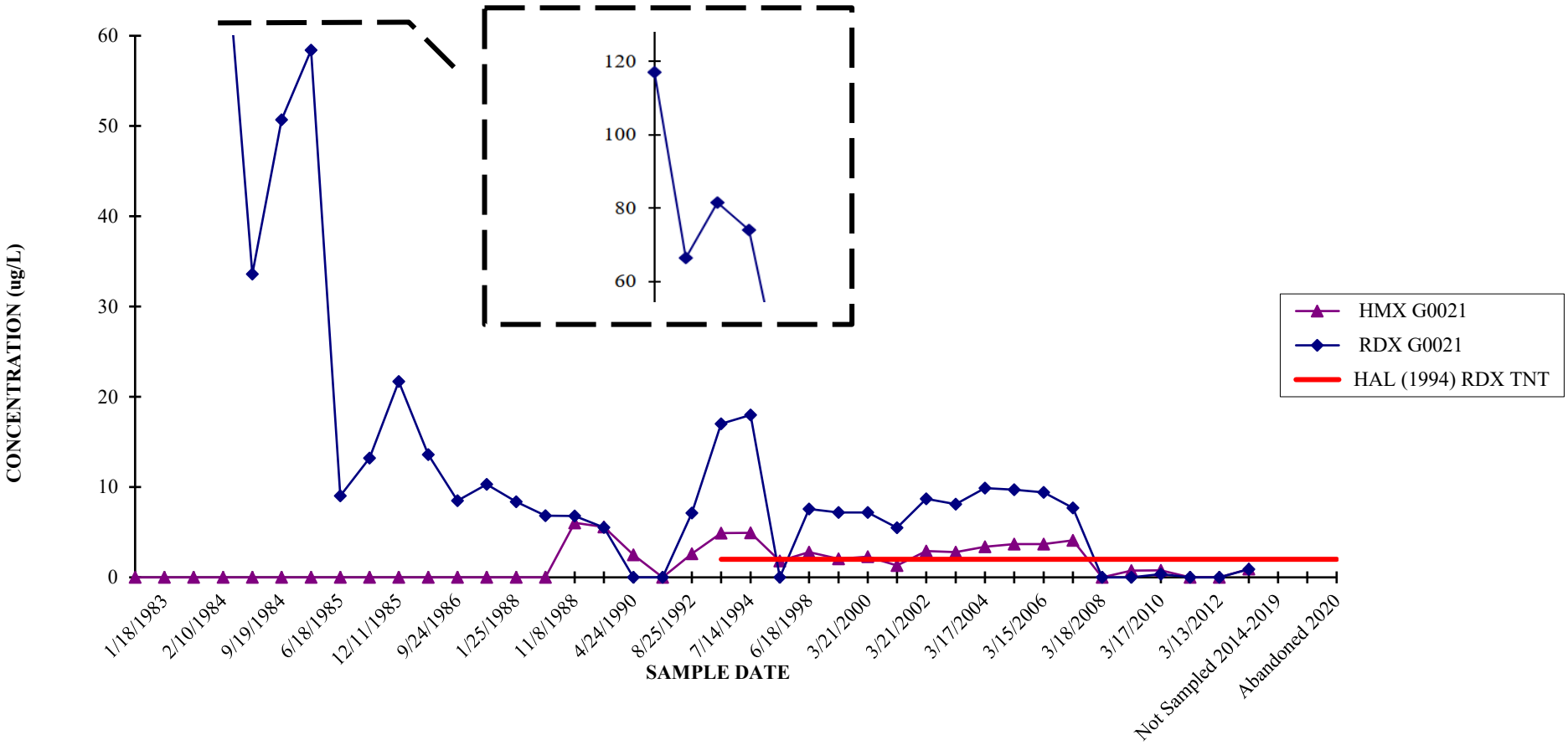
Note: Well G0019 was abandoned in 2014

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0020 - HMX, RDX, AND TNT



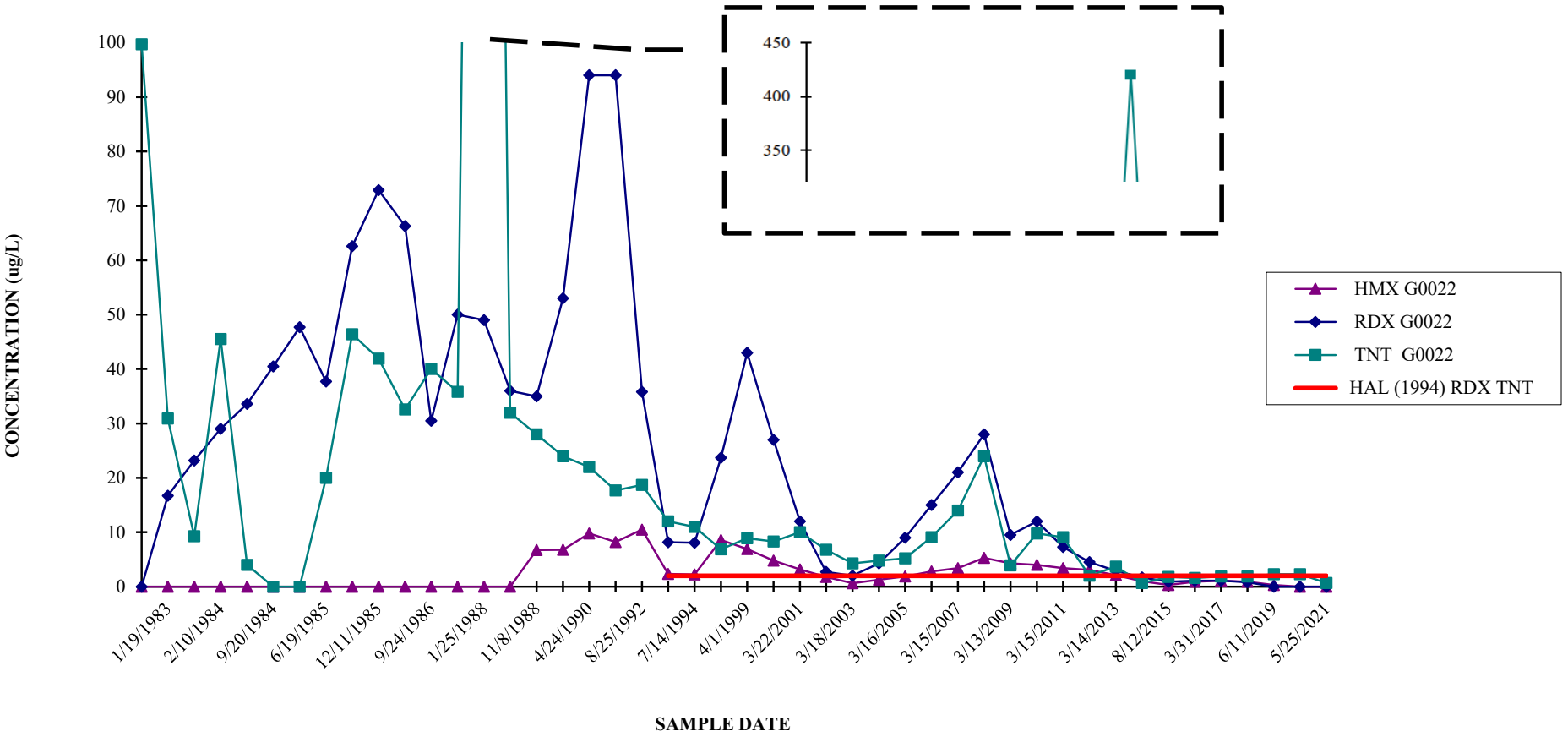
Note: Well G0020 was abandoned in 2014

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0021 - HMX AND RDX

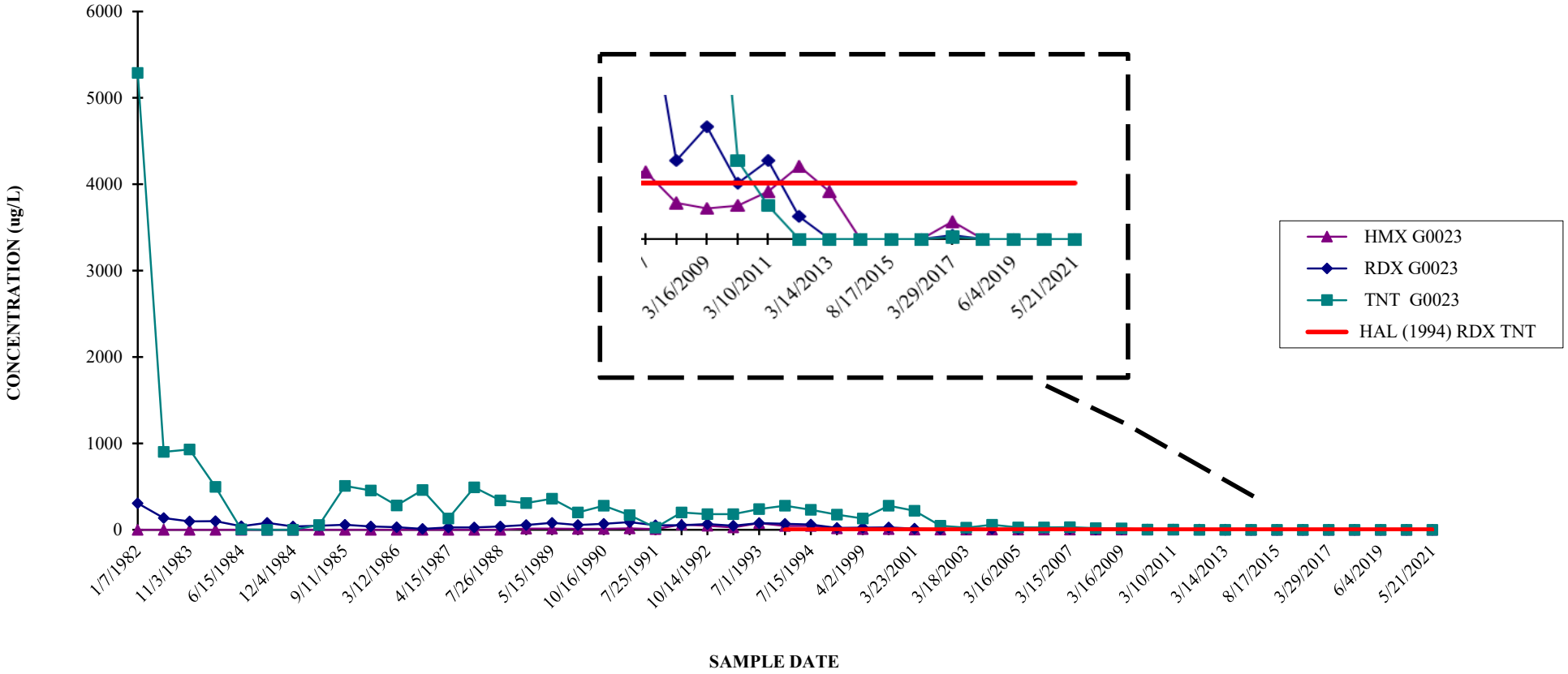


Note: Well G0021 was abandoned in 20

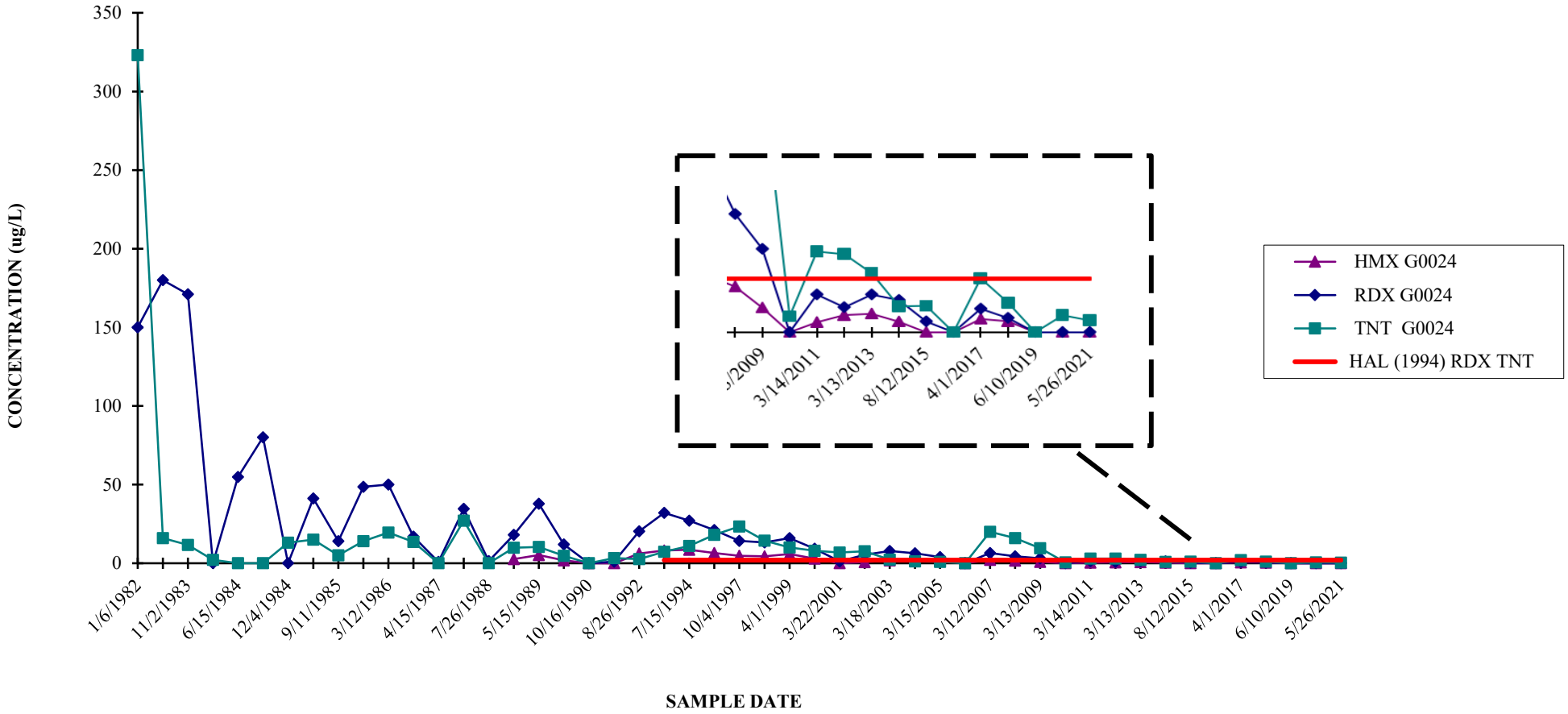
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0022 - HMX, RDX, AND TNT



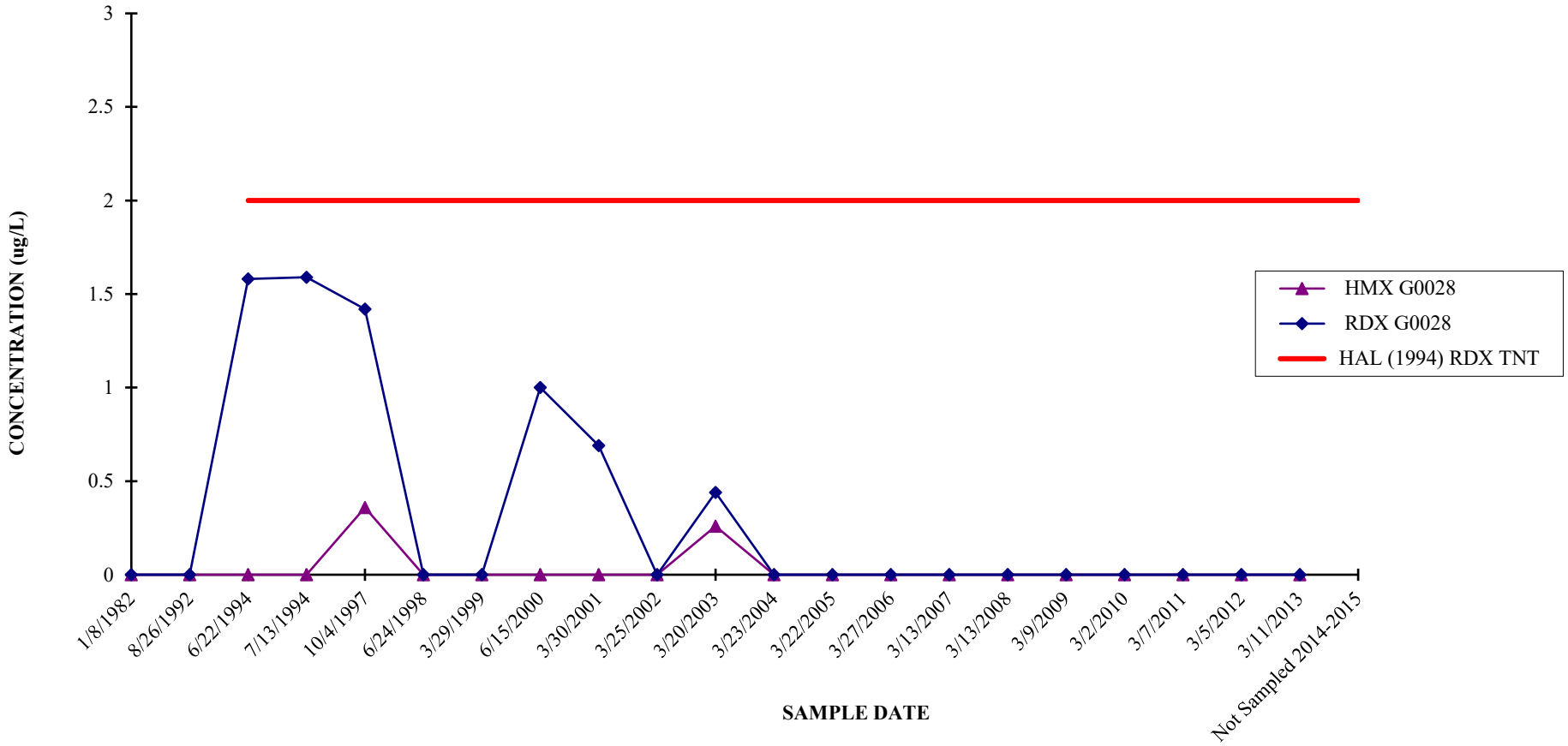
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0023 - HMX, RDX, AND TNT



CORNHUSKER ARMY AMMUNITION PLANT
WELL G0024 - HMX, RDX AND TNT

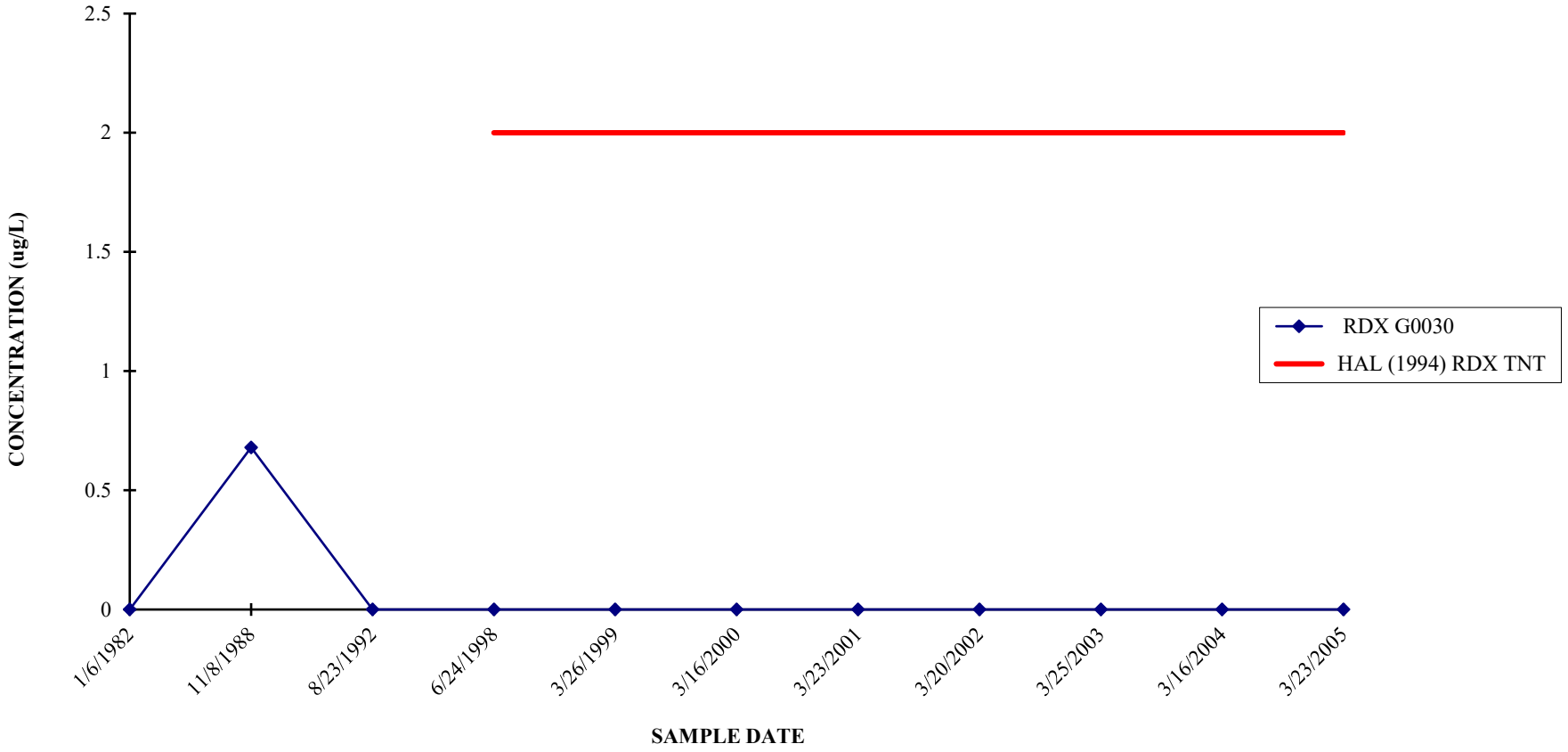


CORNHUSKER ARMY AMMUNITION PLANT
WELL G0028 - HMX AND RDX



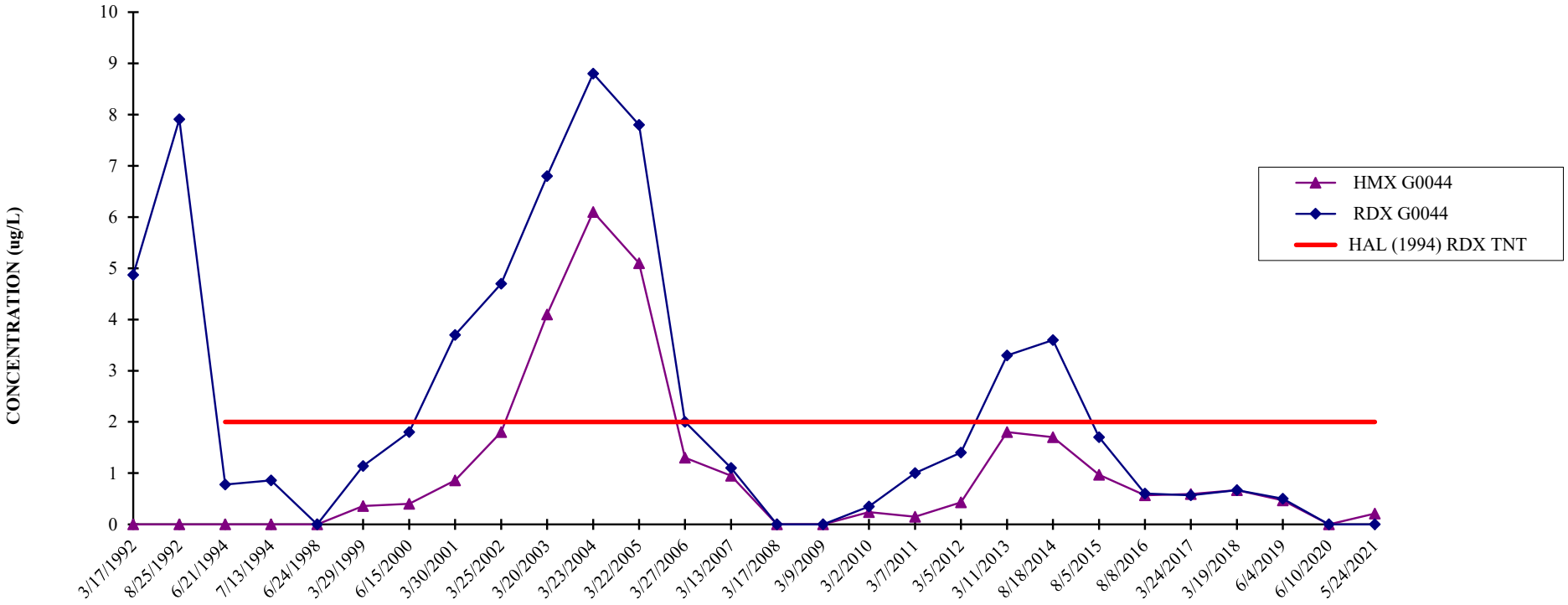
Note: Well G0028 was abandoned in 2016

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0030 - RDX

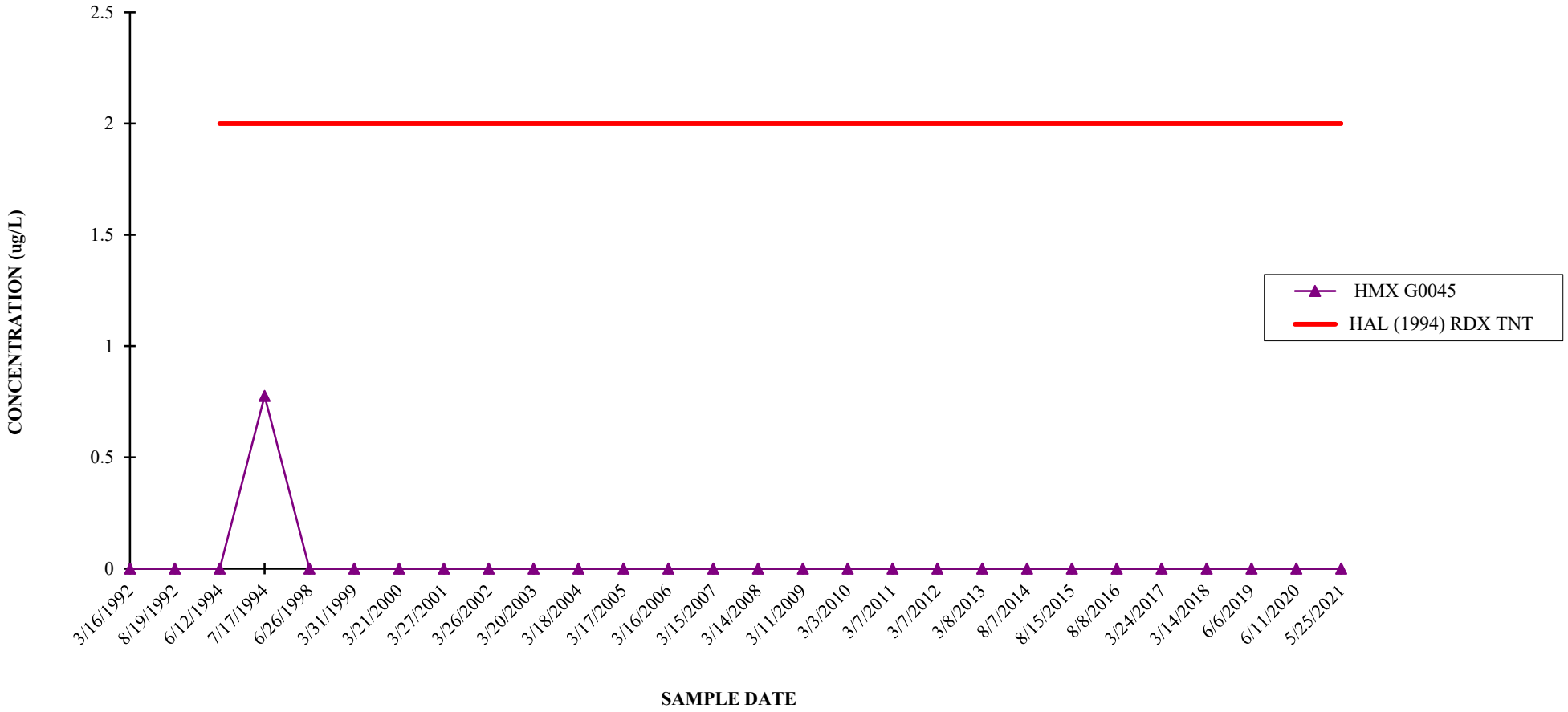


NOTE: Well G0030 was abandoned in 2005.

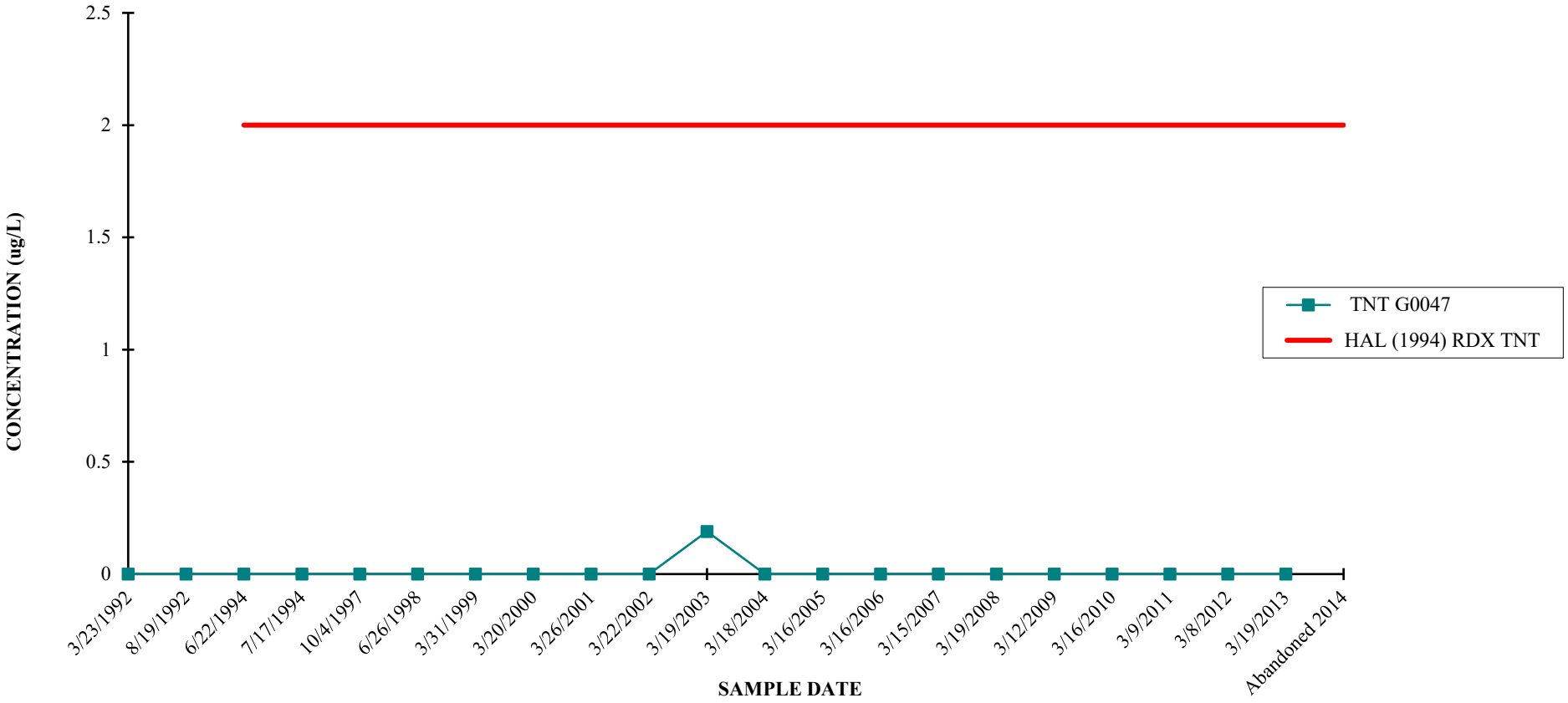
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0044 - HMX AND RDX



CORNHUSKER ARMY AMMUNITION PLANT
WELL G0045 - HMX

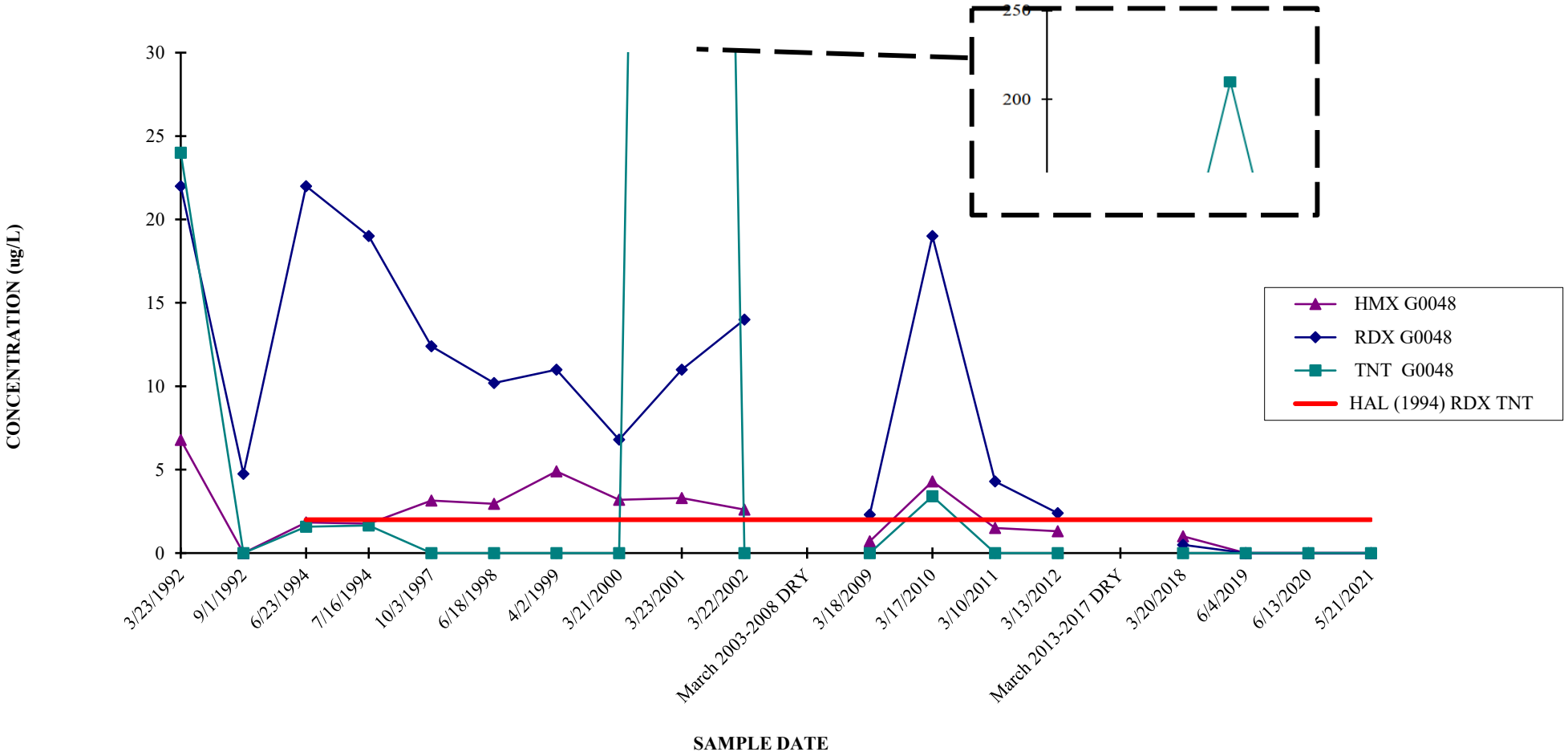


CORNHUSKER ARMY AMMUNITION PLANT
WELL G0047 - TNT

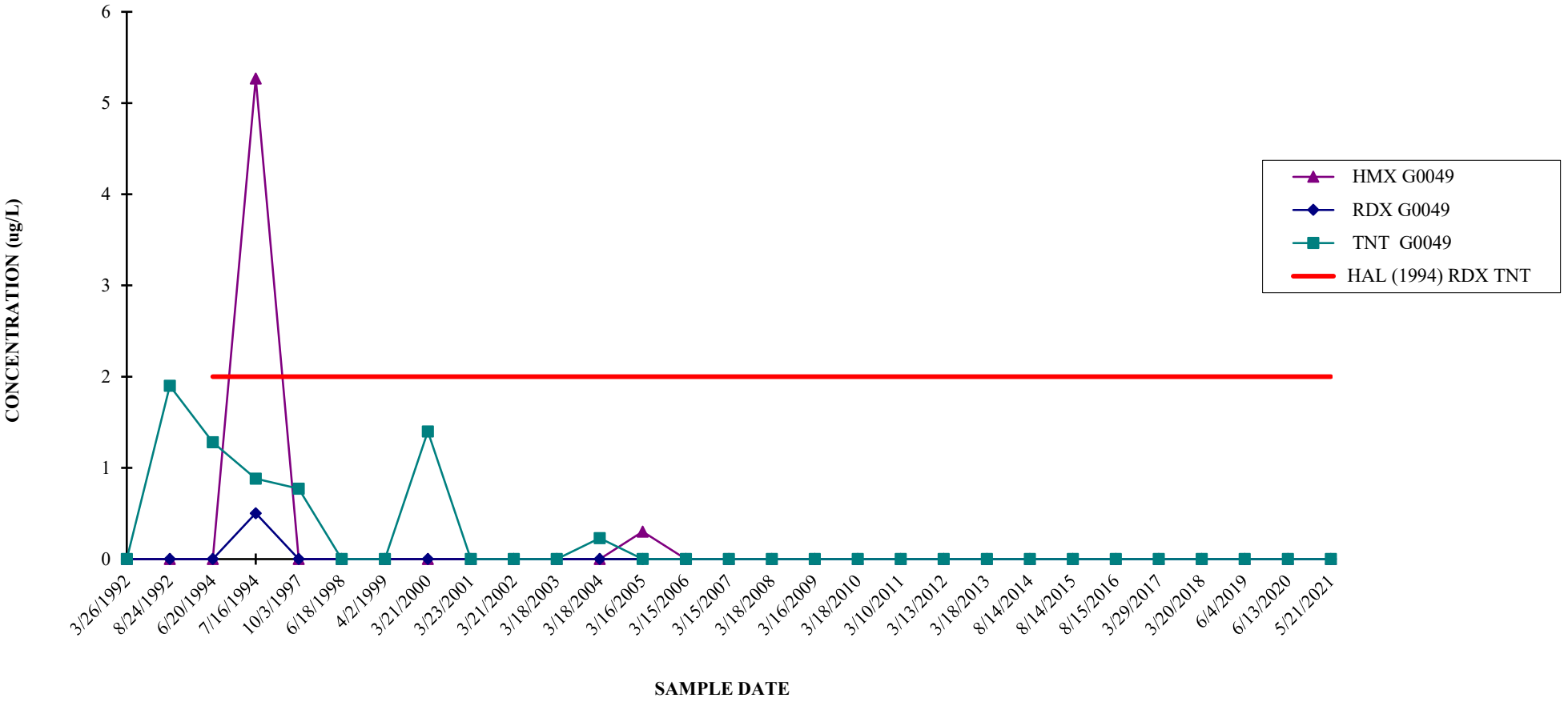


Note: Well G0047 was abandoned in 2014

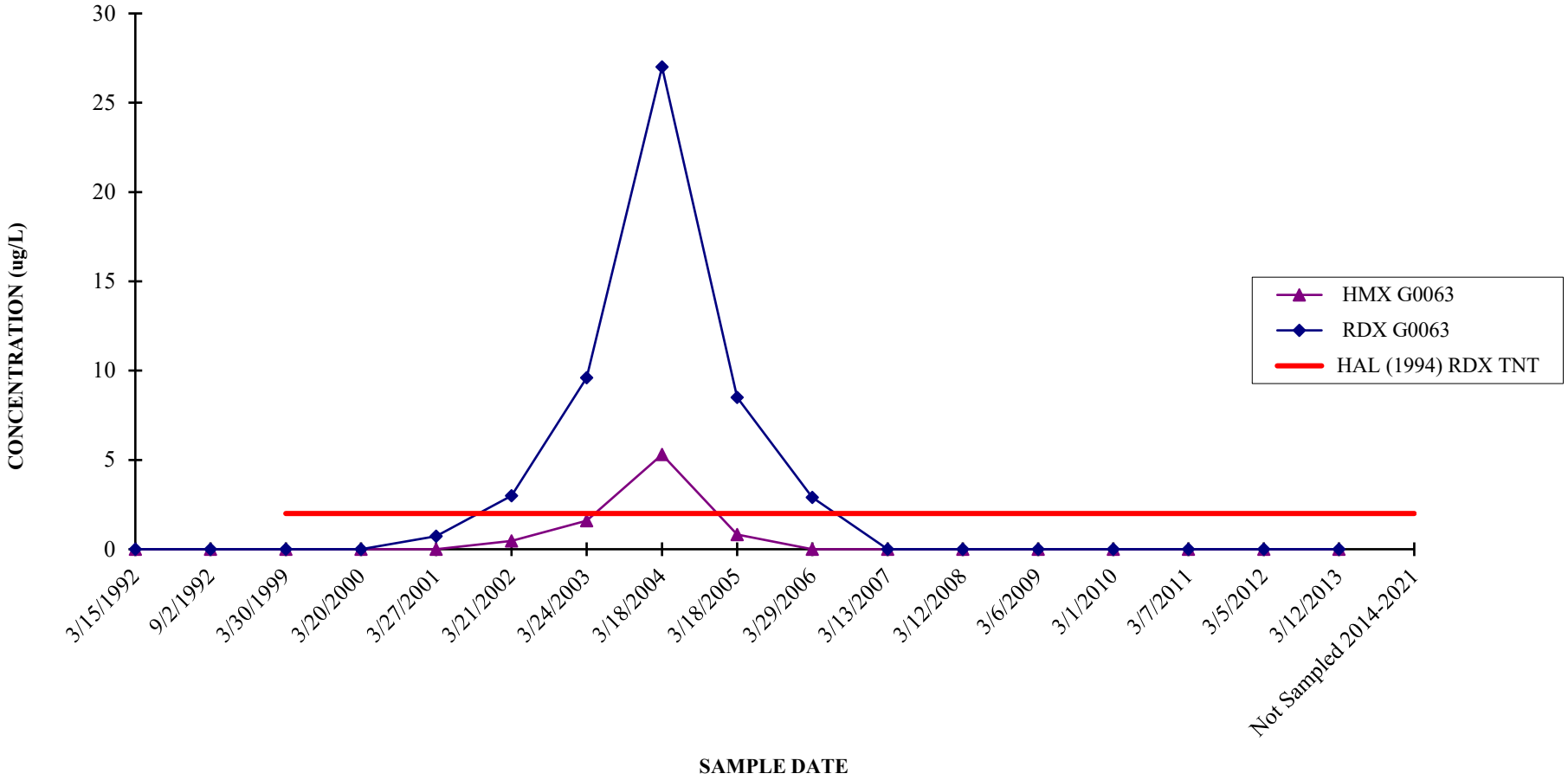
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0048 - HMX, RDX, AND TNT



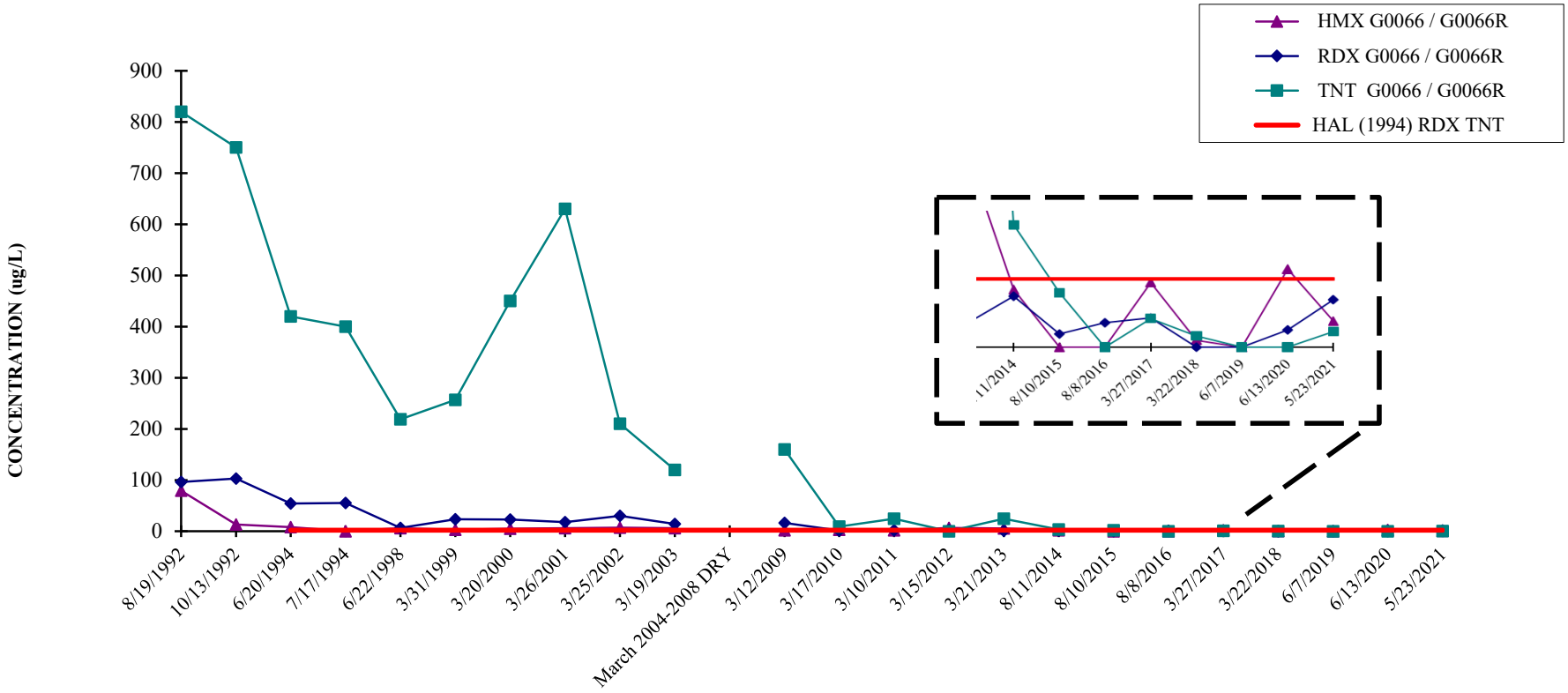
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0049 - HMX, RDX, AND TNT



CORNHUSKER ARMY AMMUNITION PLANT
WELL G0063 - HMX AND RDX

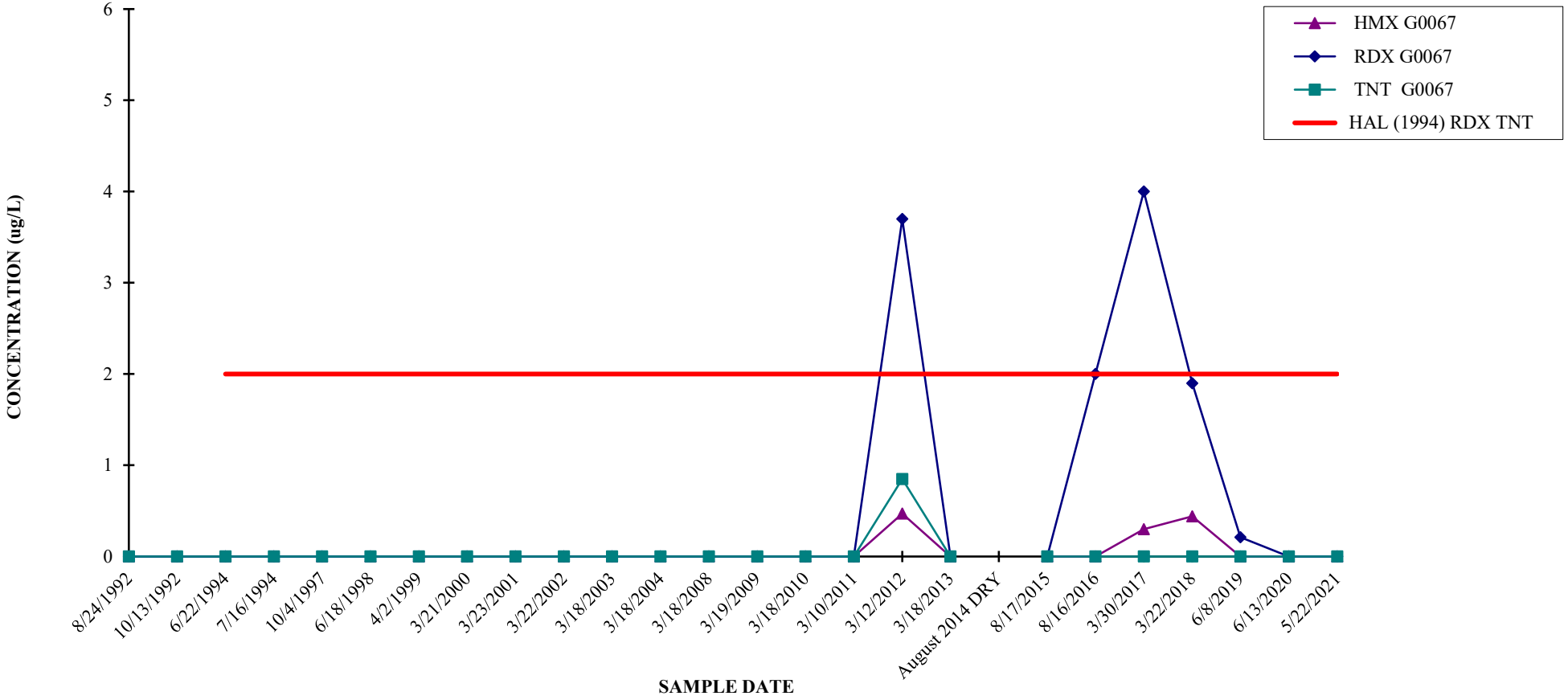


CORNHUSKER ARMY AMMUNITION PLANT
WELL G0066/G0066R* - HMX, RDX, AND TNT

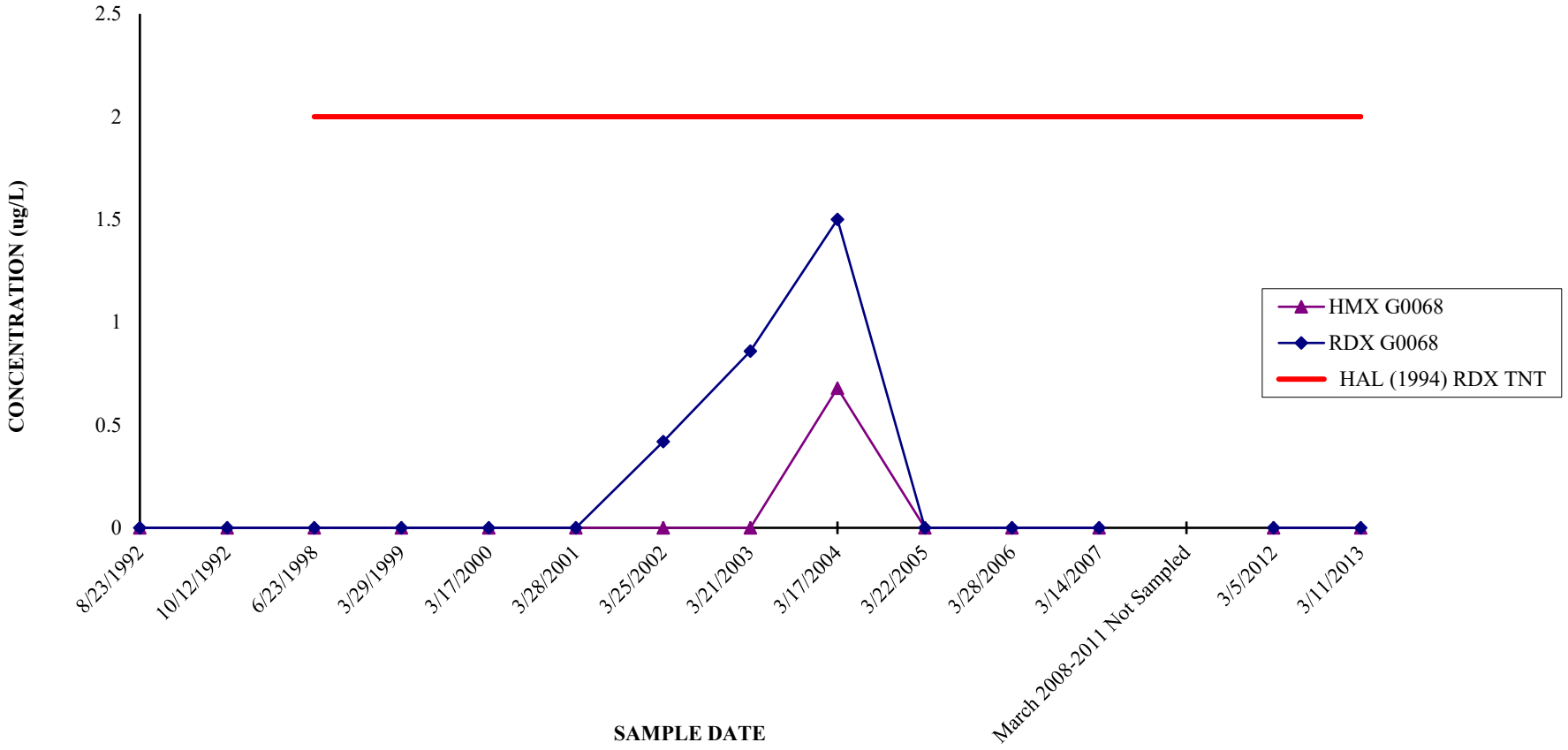


Well G0066 was abandonded and replaced by G0066R in November 2010.

CORNHUSKER ARMY AMMUNITION PLANT
WELL G0067 - HMX, RDX, AND TNT

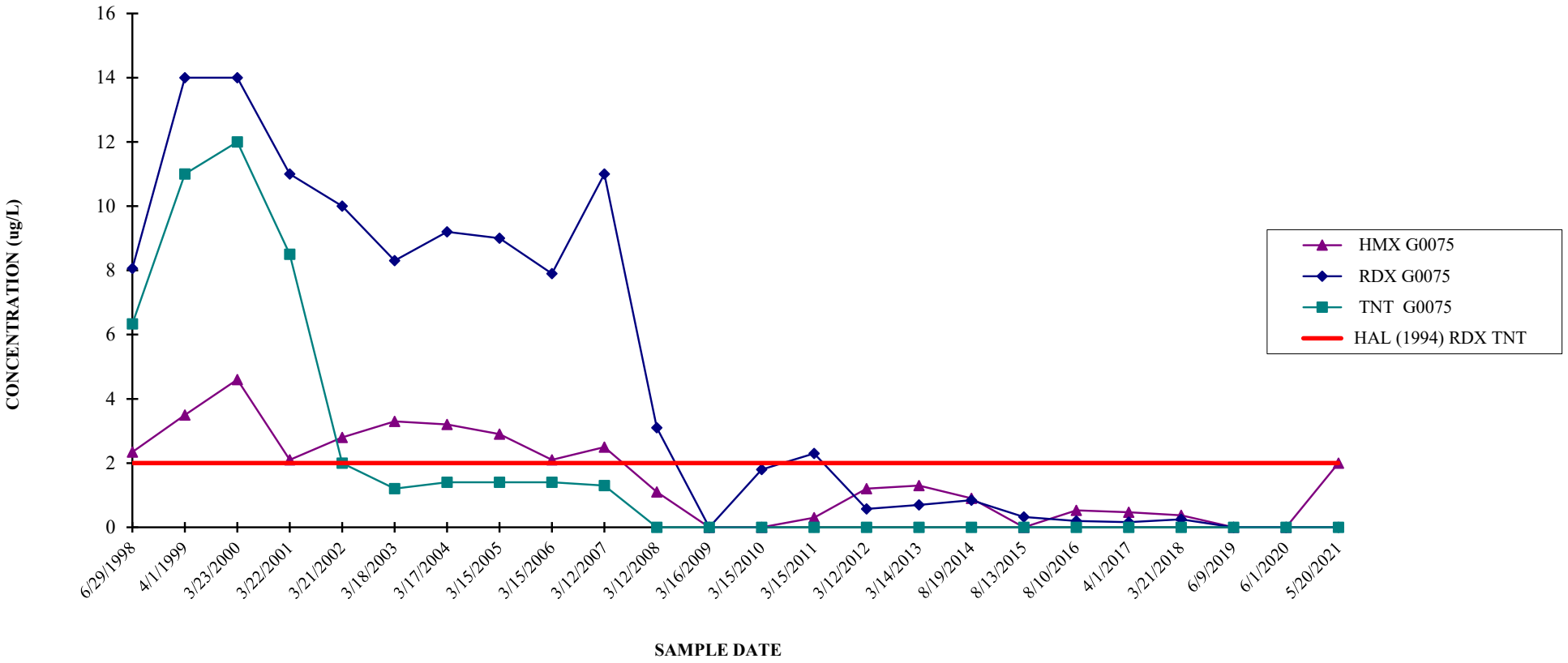


CORNHUSKER ARMY AMMUNITION PLANT
WELL G0068 - HMX AND RDX

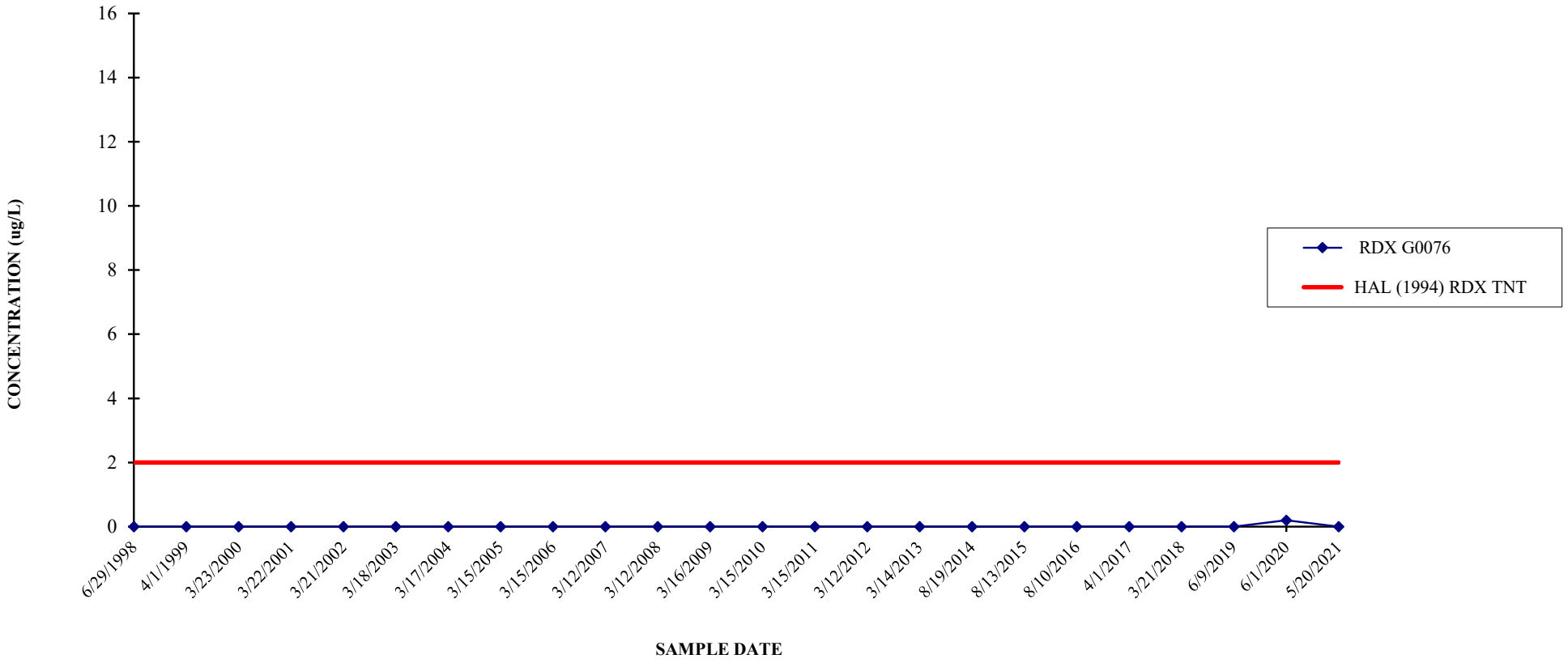


Note: Well G0068 was abandoned in 2013

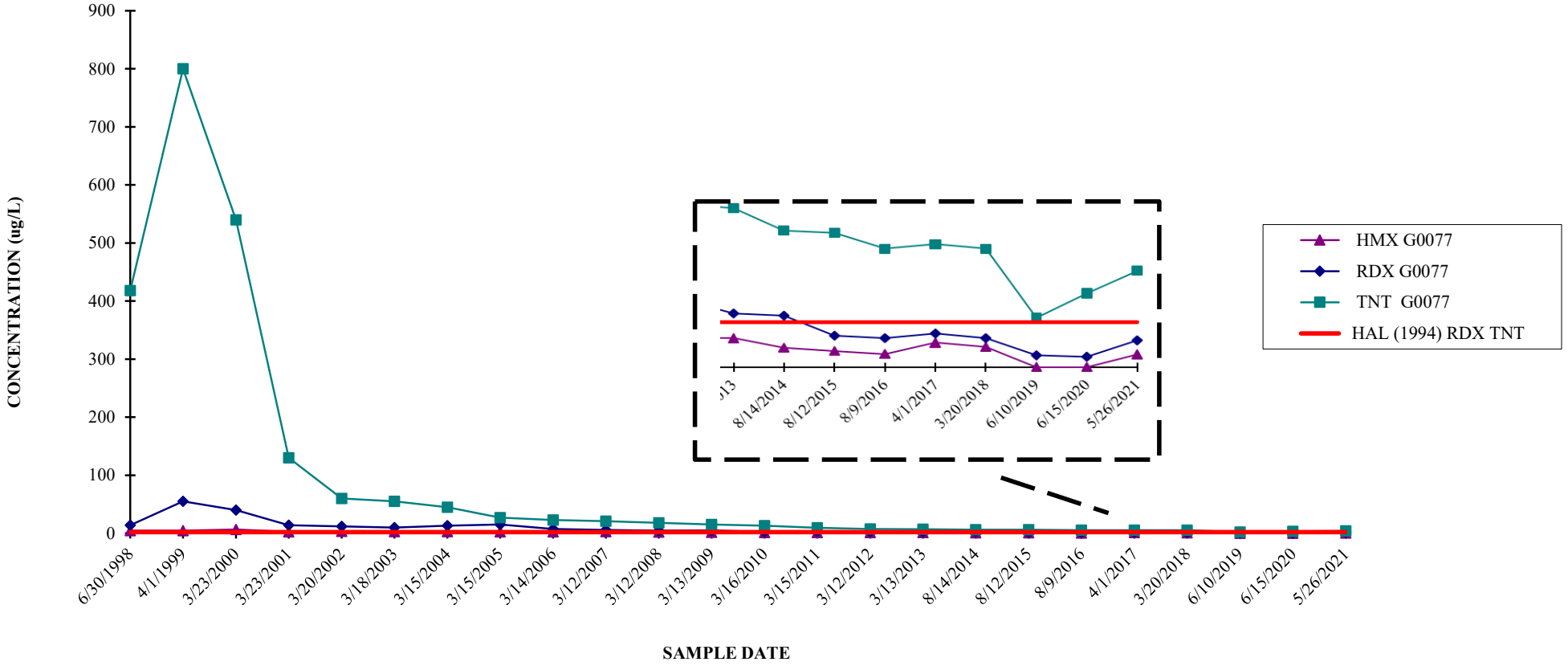
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0075 - HMX, RDX, AND TNT



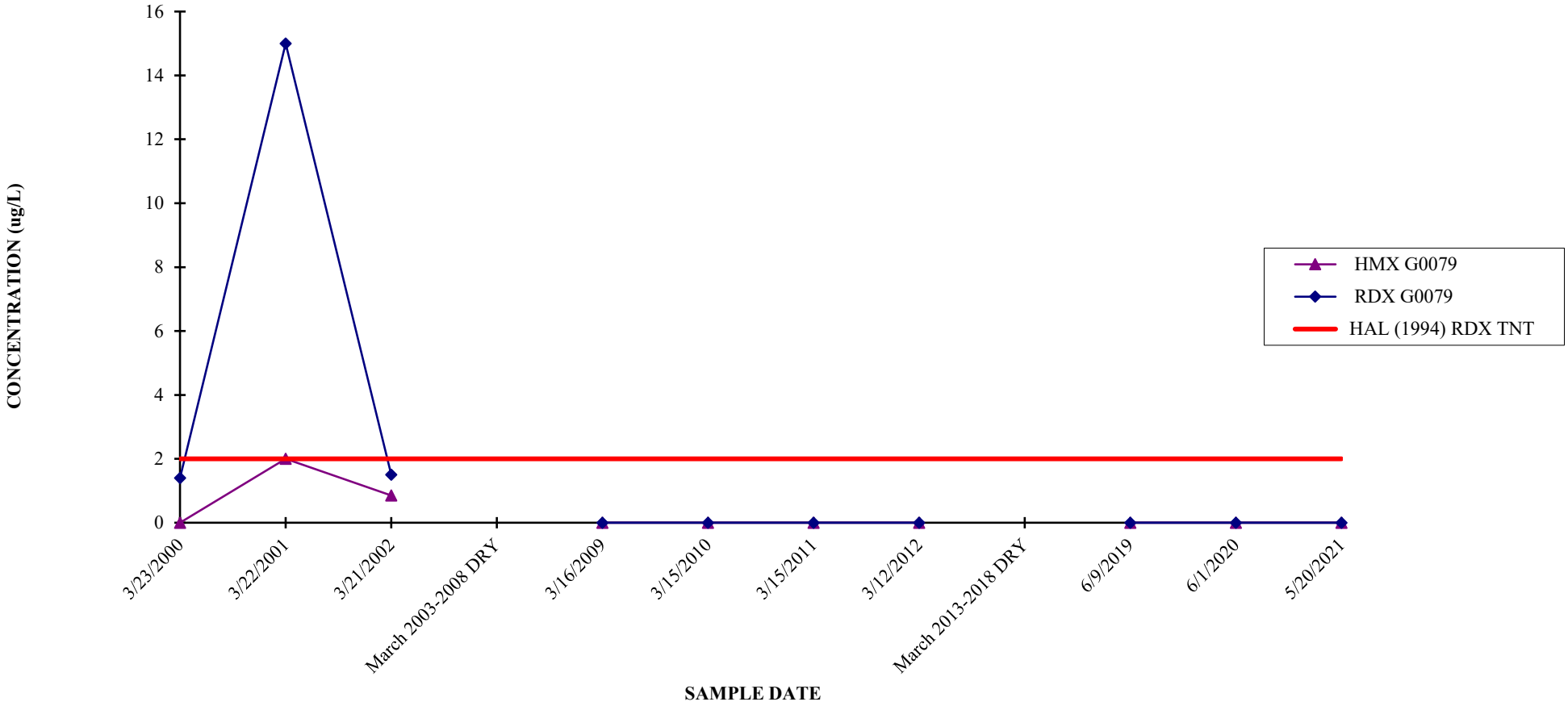
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0076 - RDX



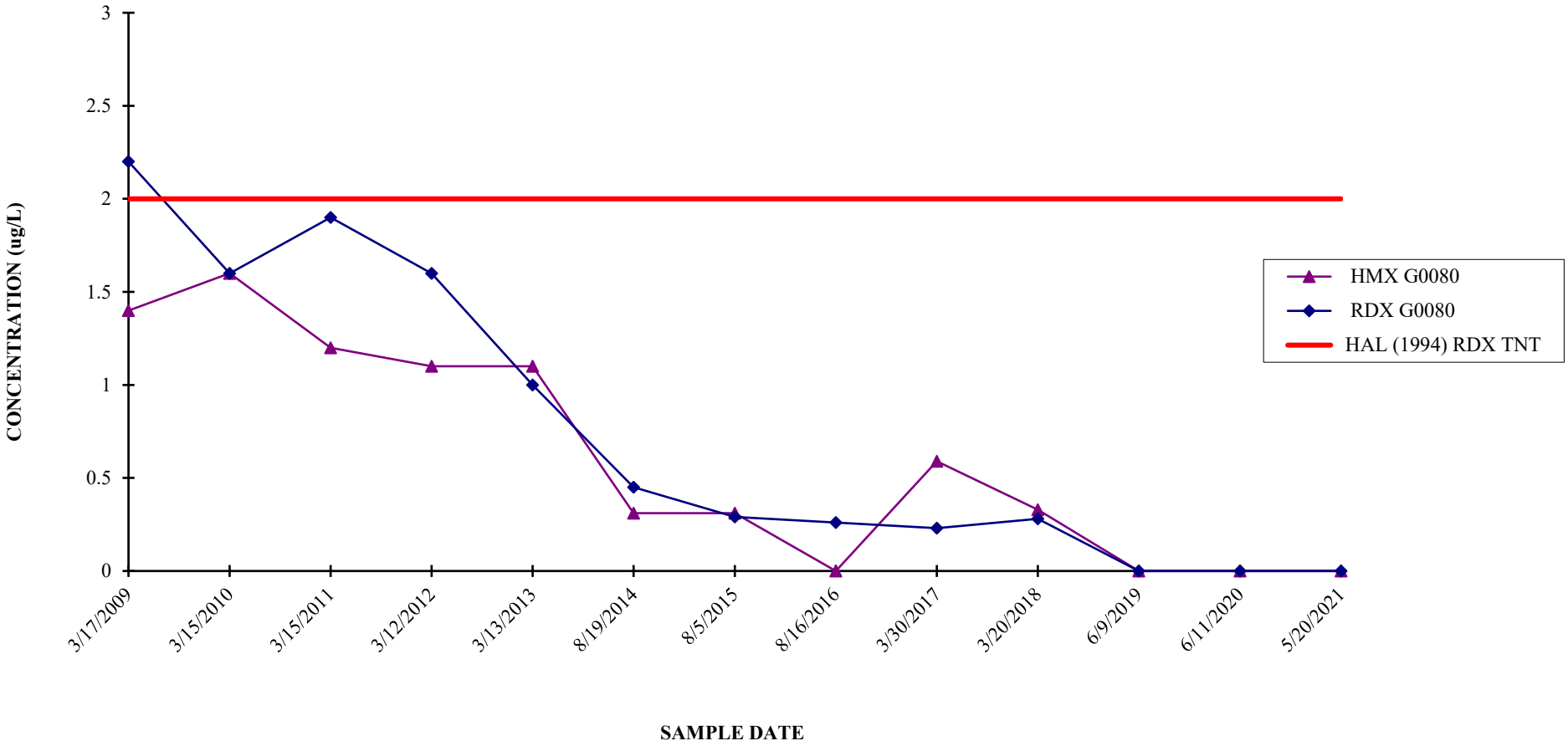
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0077 - HMX, RDX, AND TNT



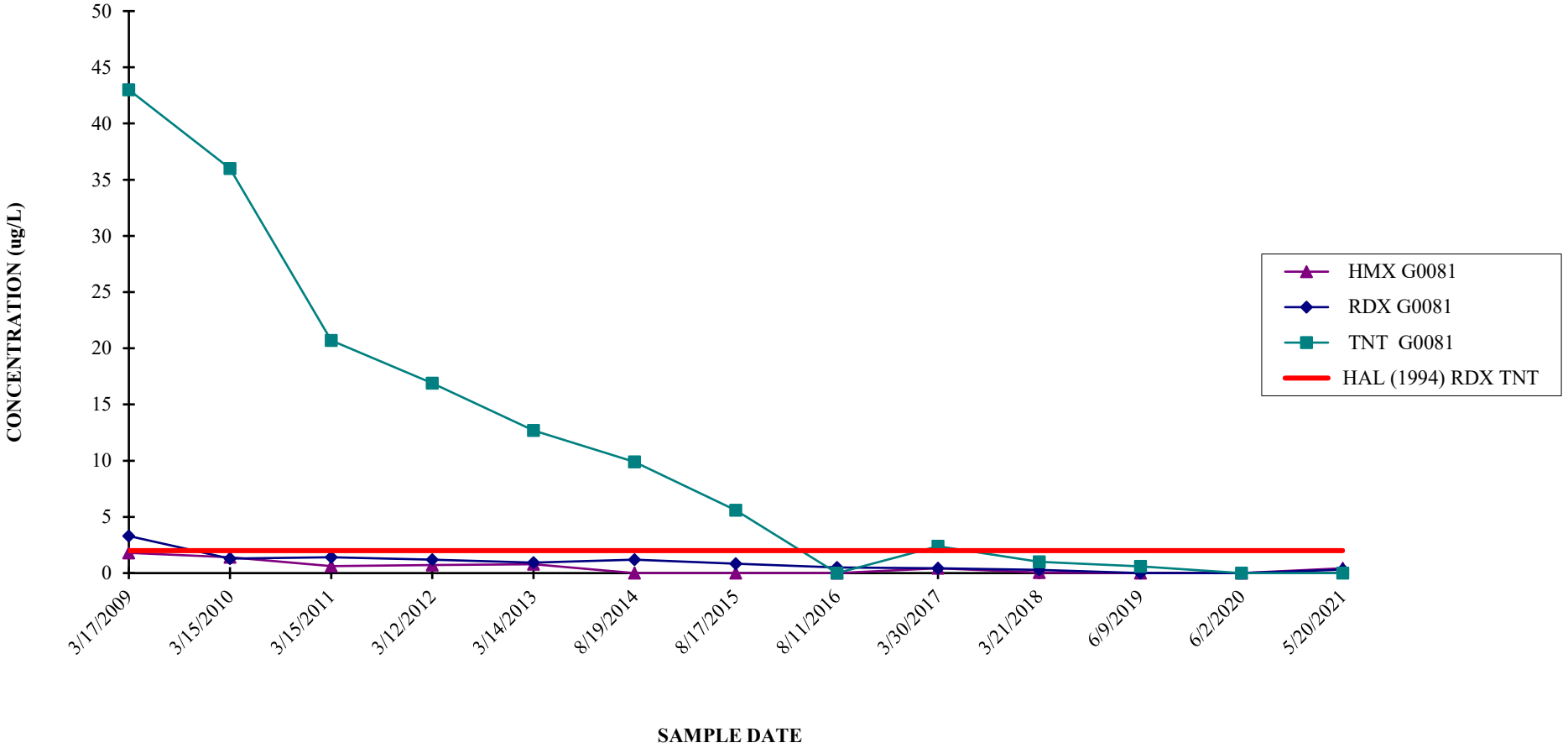
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0079 - HMX AND RDX



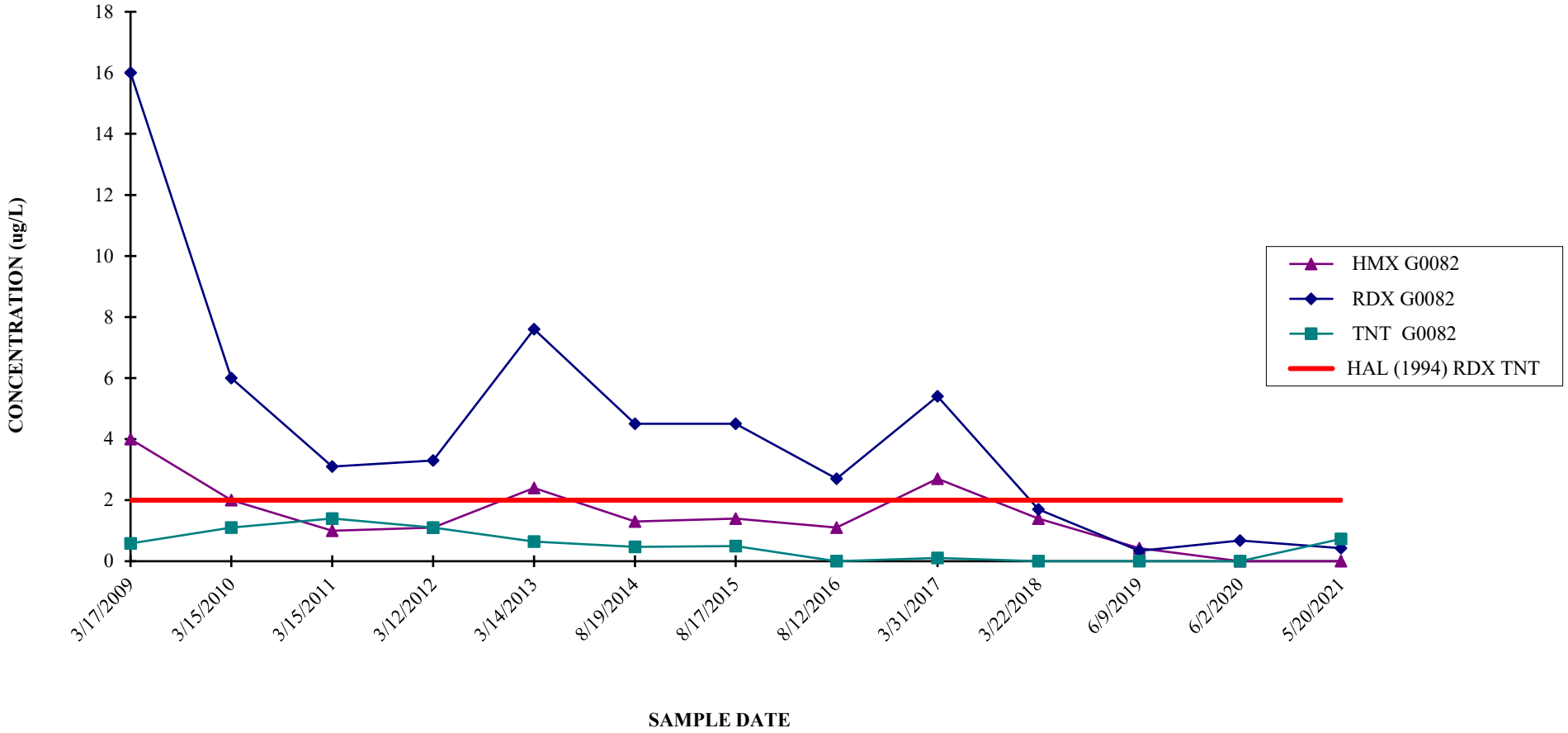
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0080 - HMX AND RDX



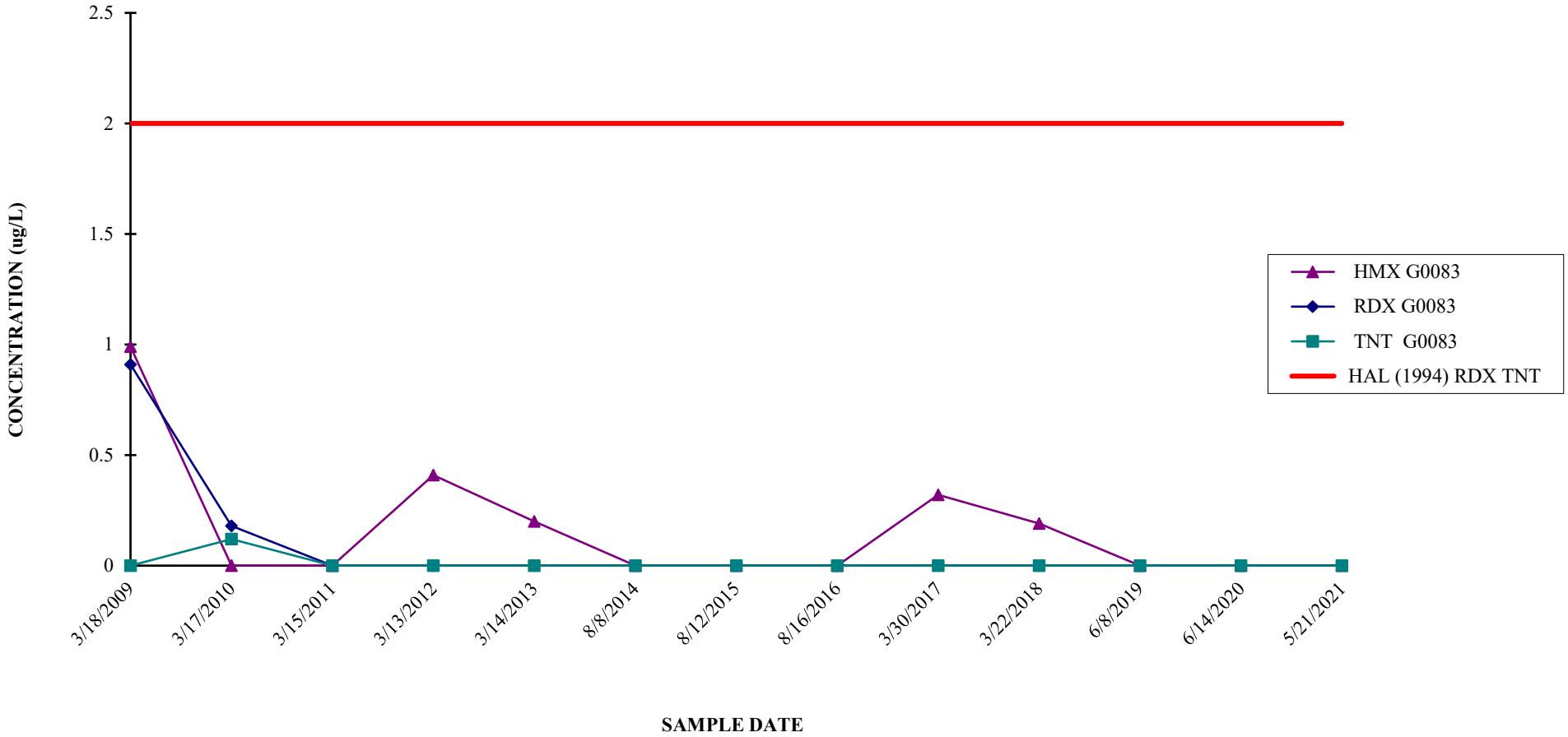
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0081 - HMX, RDX, AND TNT



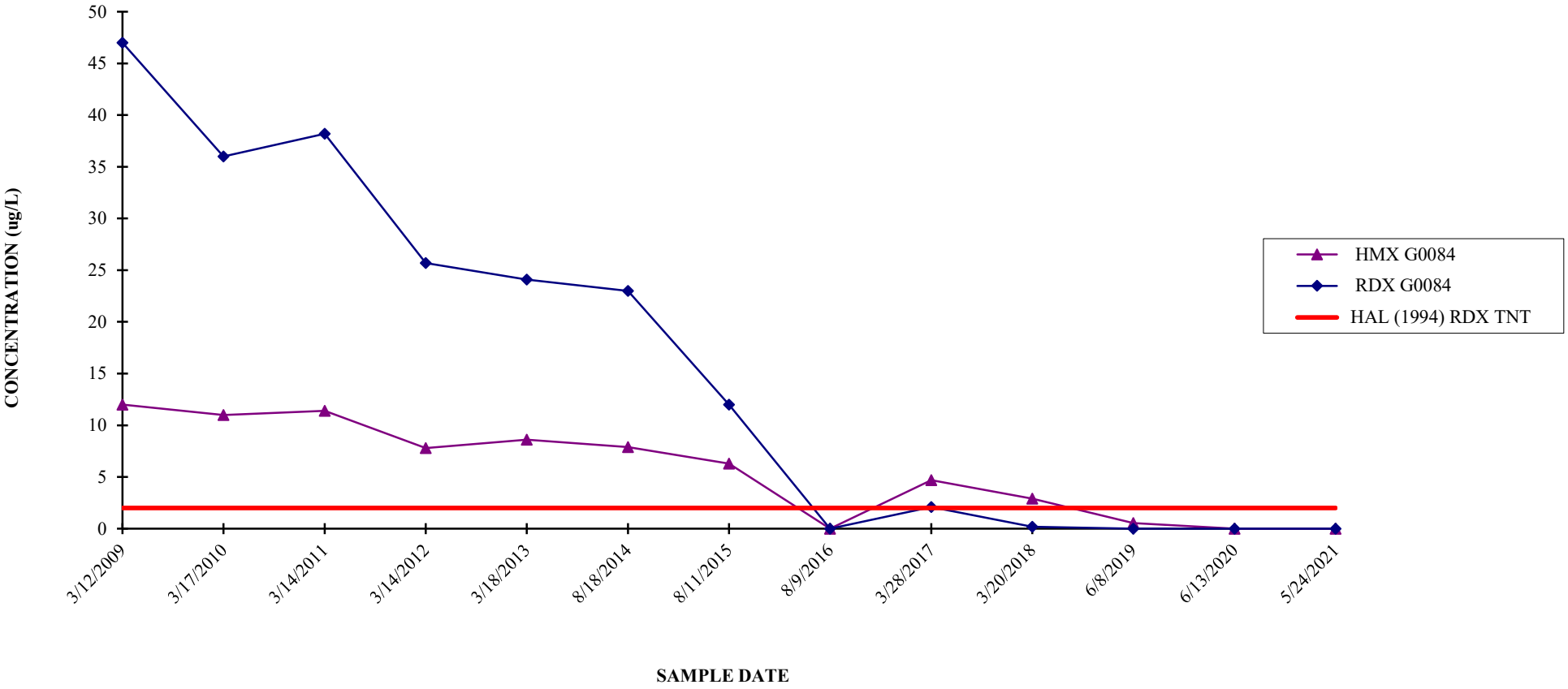
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0082 - HMX, RDX, AND TNT



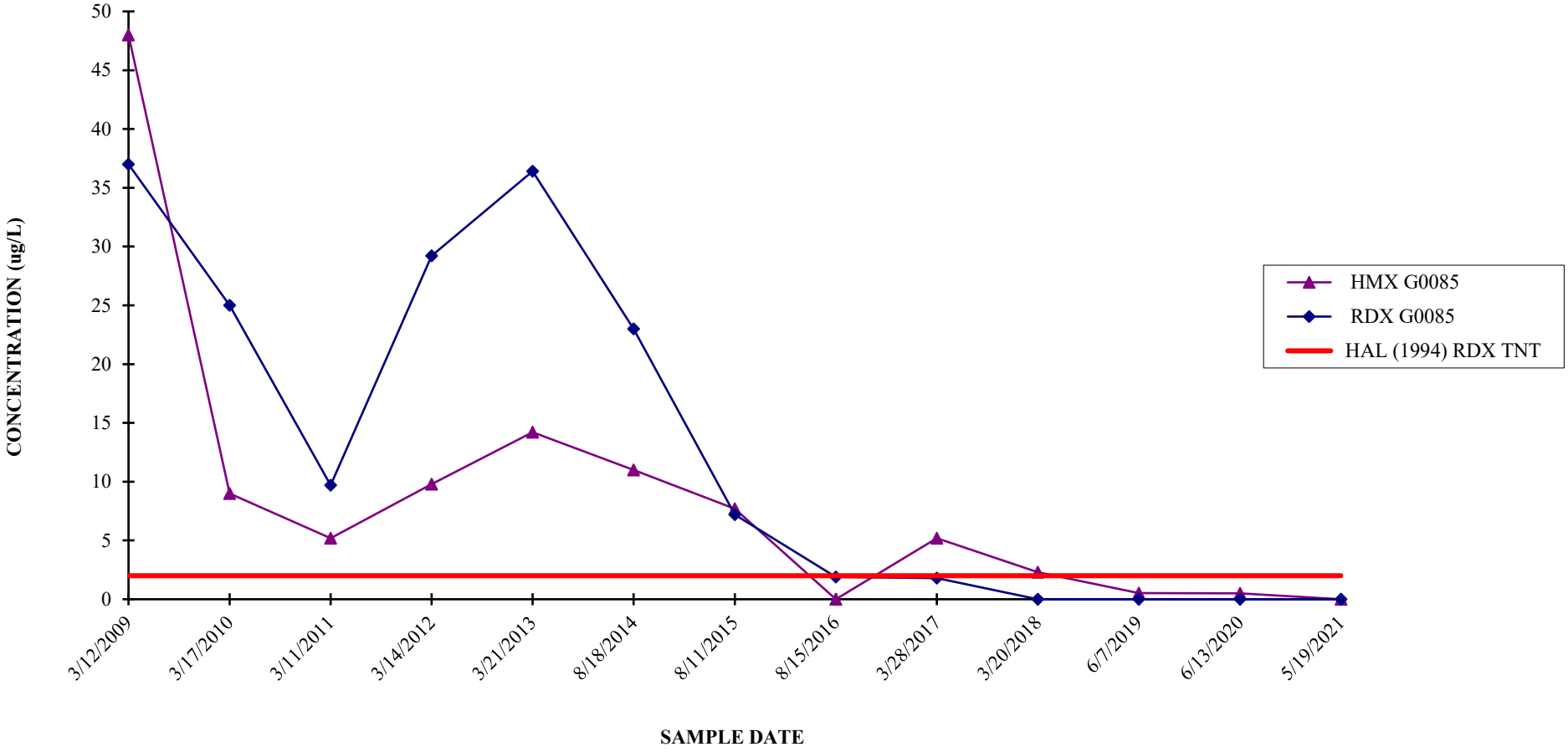
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0083 - HMX, RDX, AND TNT



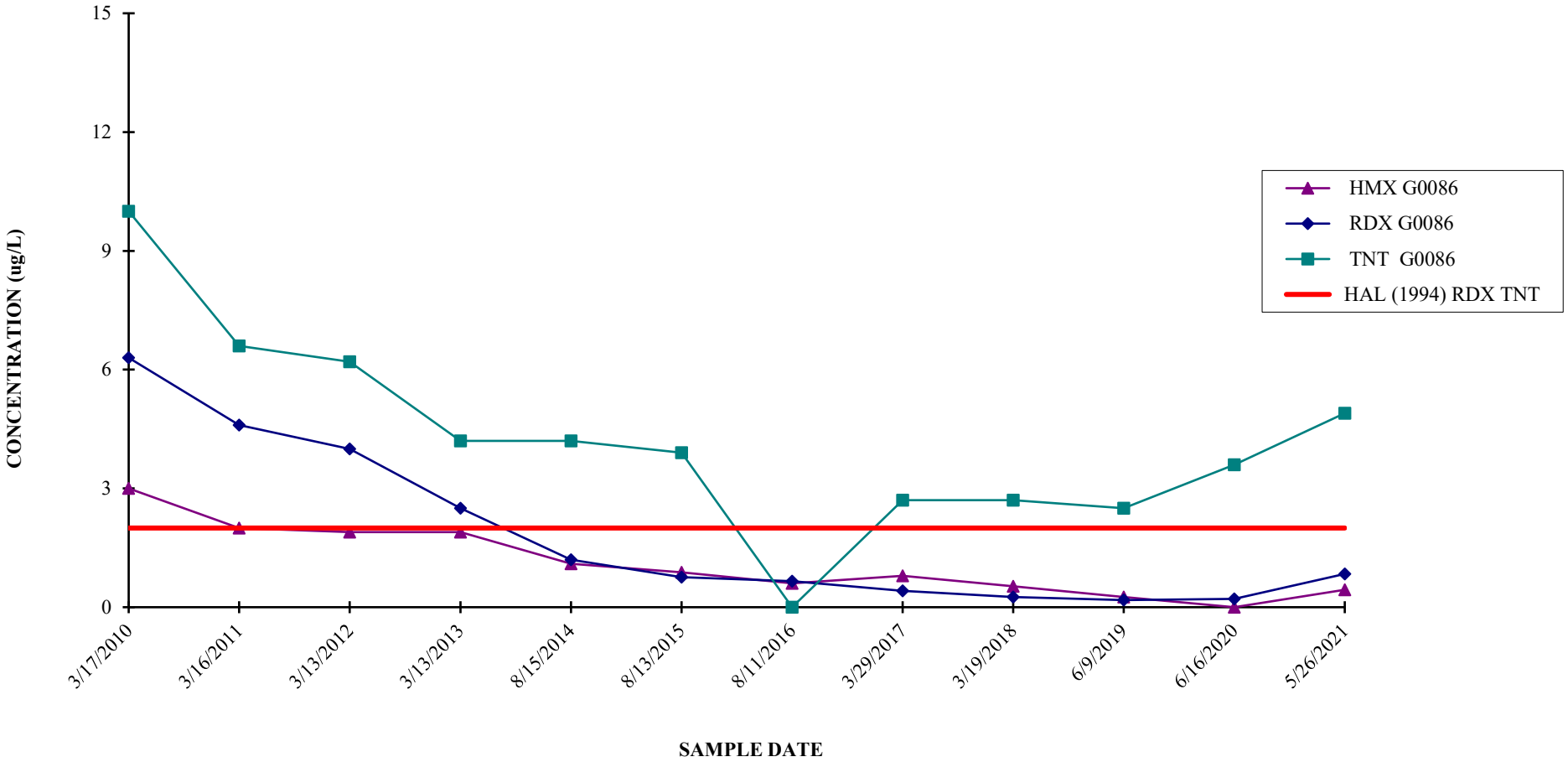
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0084 - HMX AND RDX



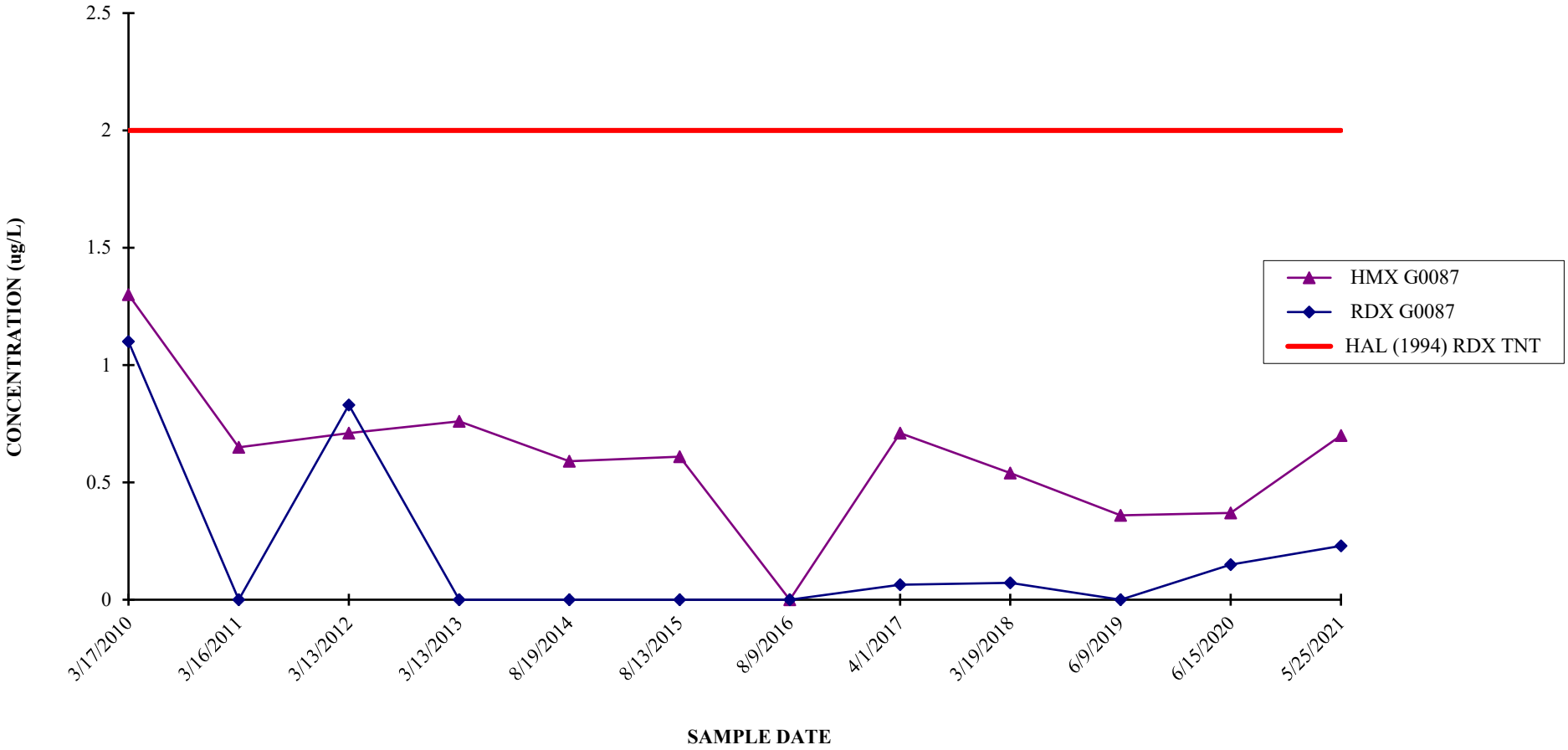
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0085 - HMX AND RDX



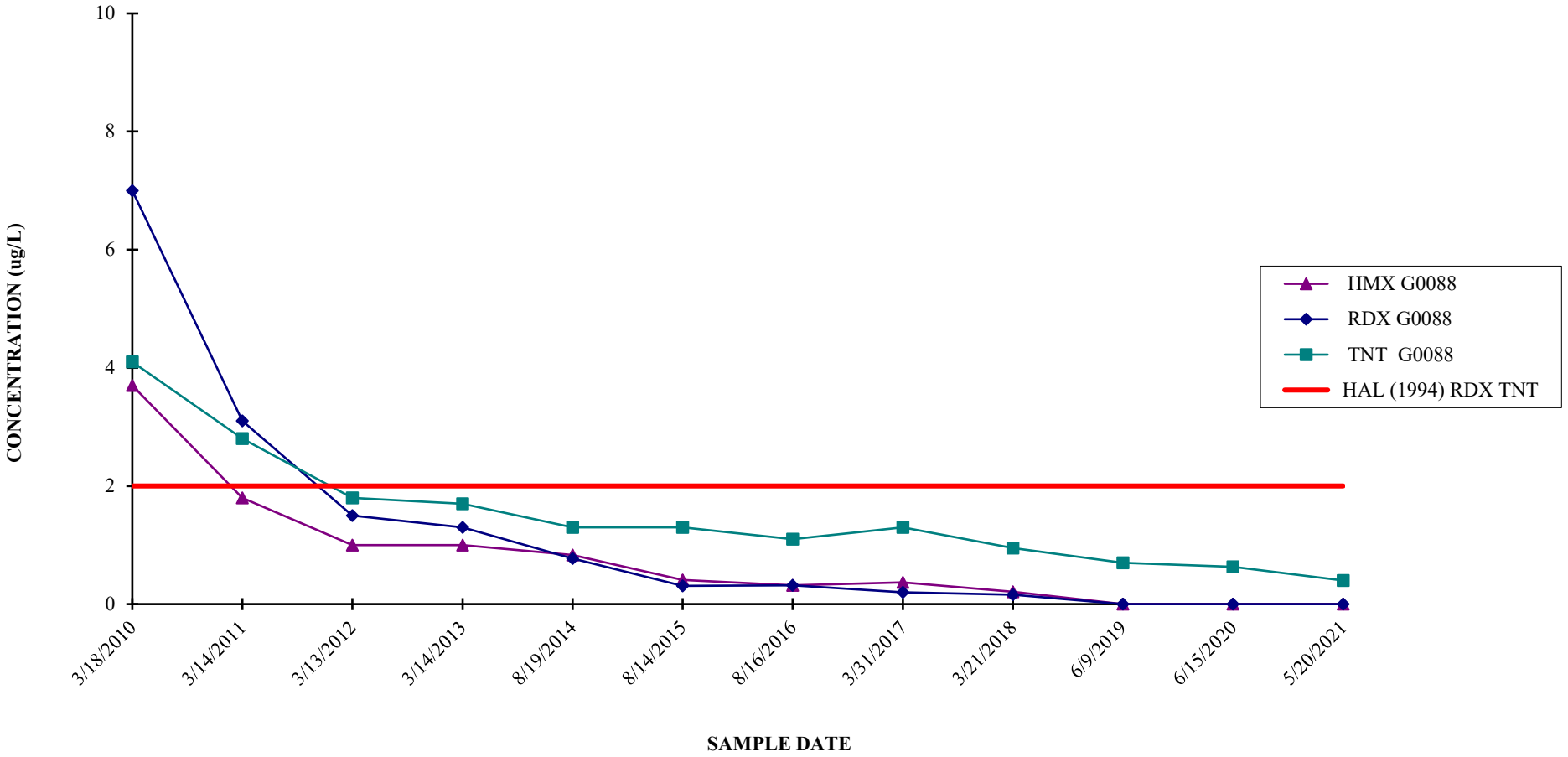
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0086 - HMX, RDX, AND TNT



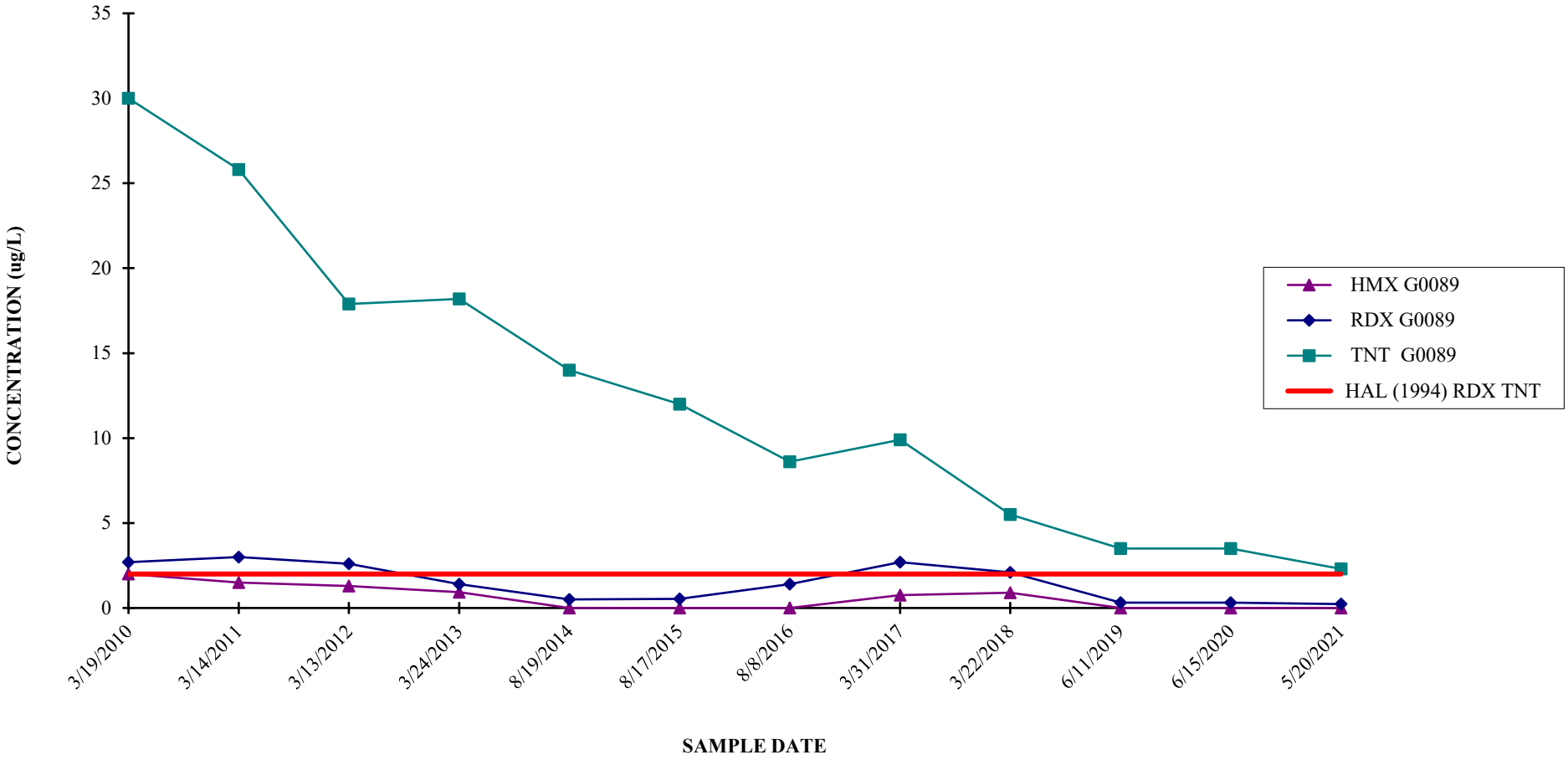
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0087 - HMX AND RDX



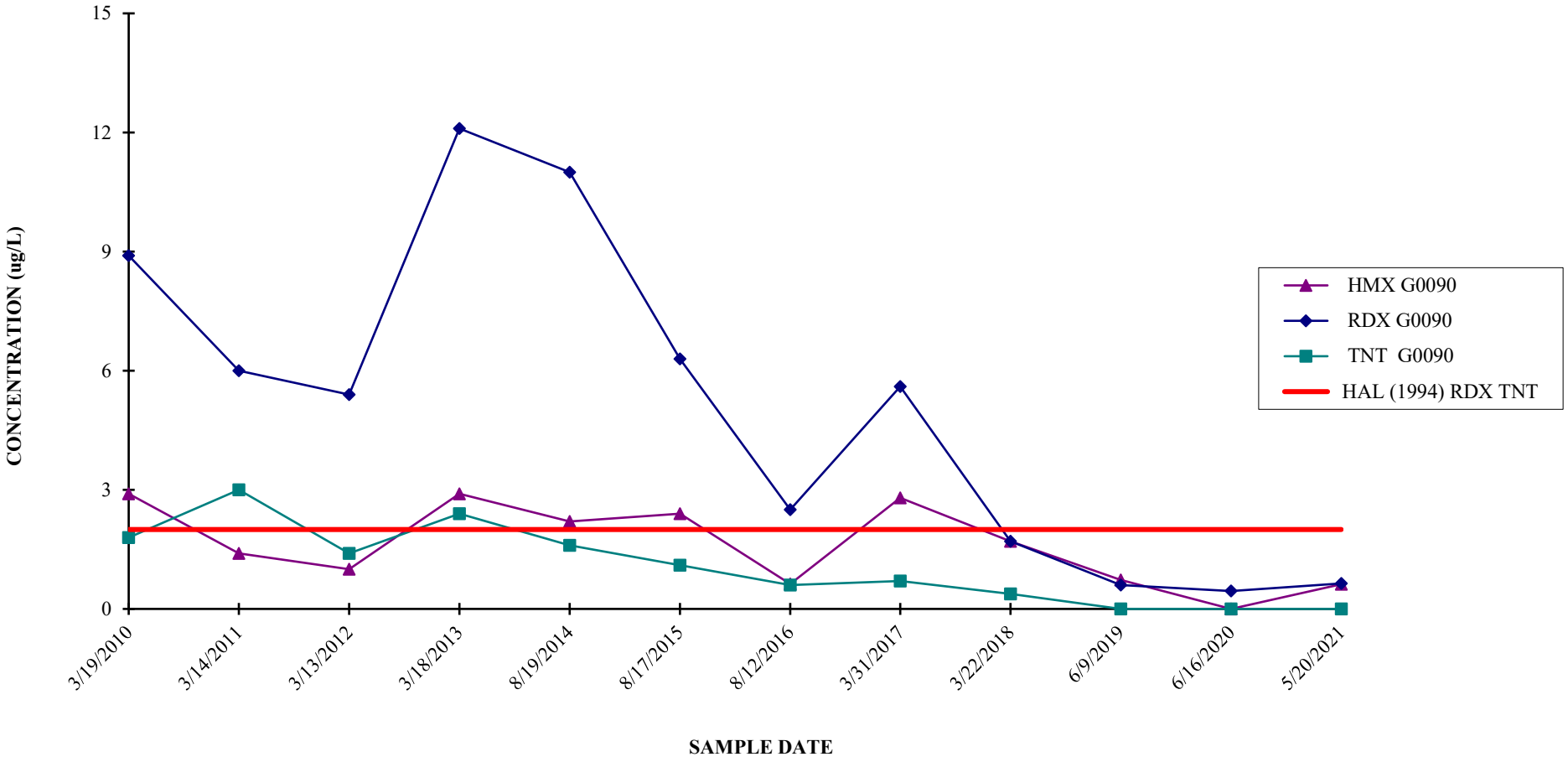
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0088 - HMX, RDX, AND TNT



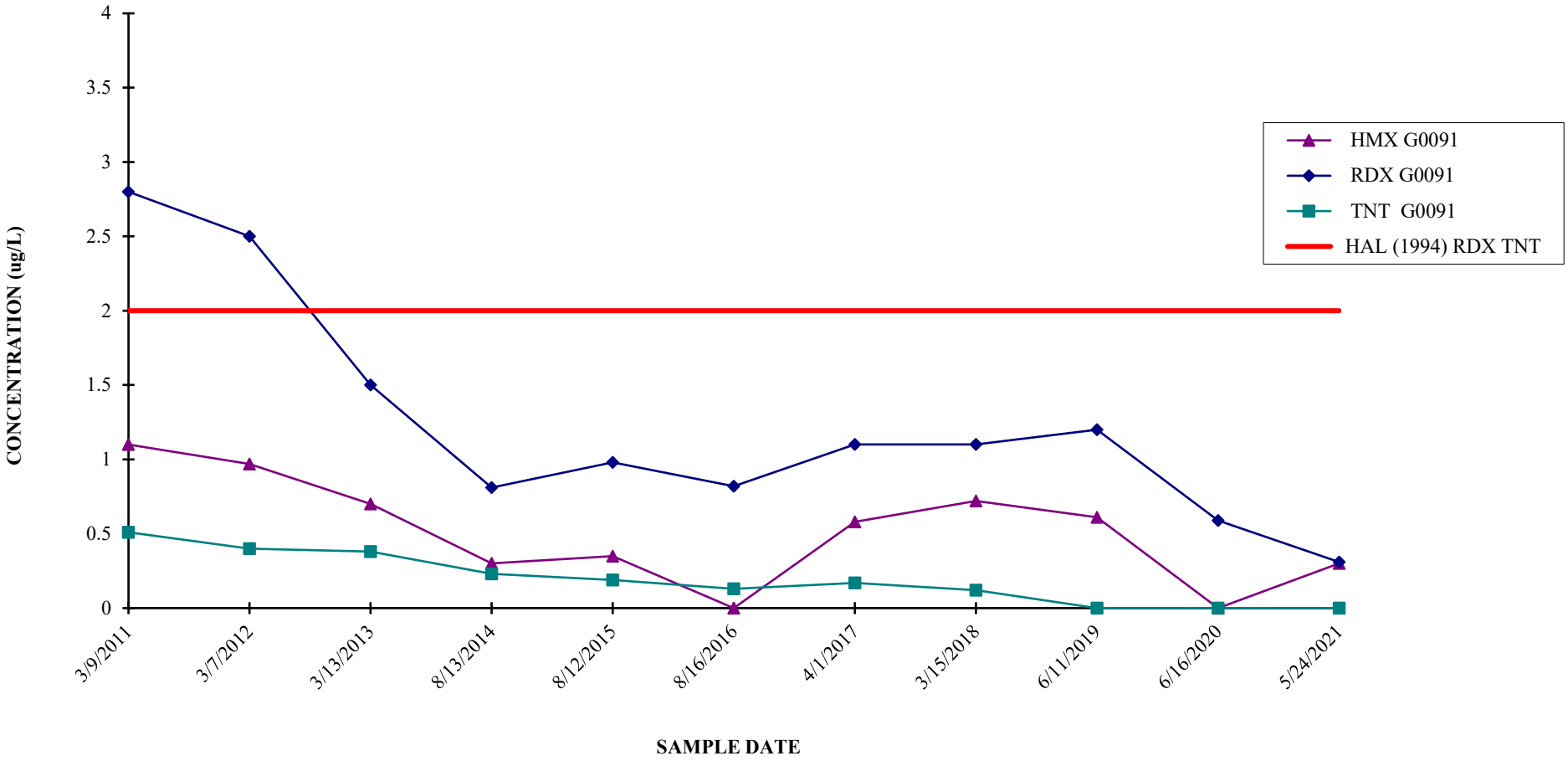
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0089 - HMX, RDX, AND TNT



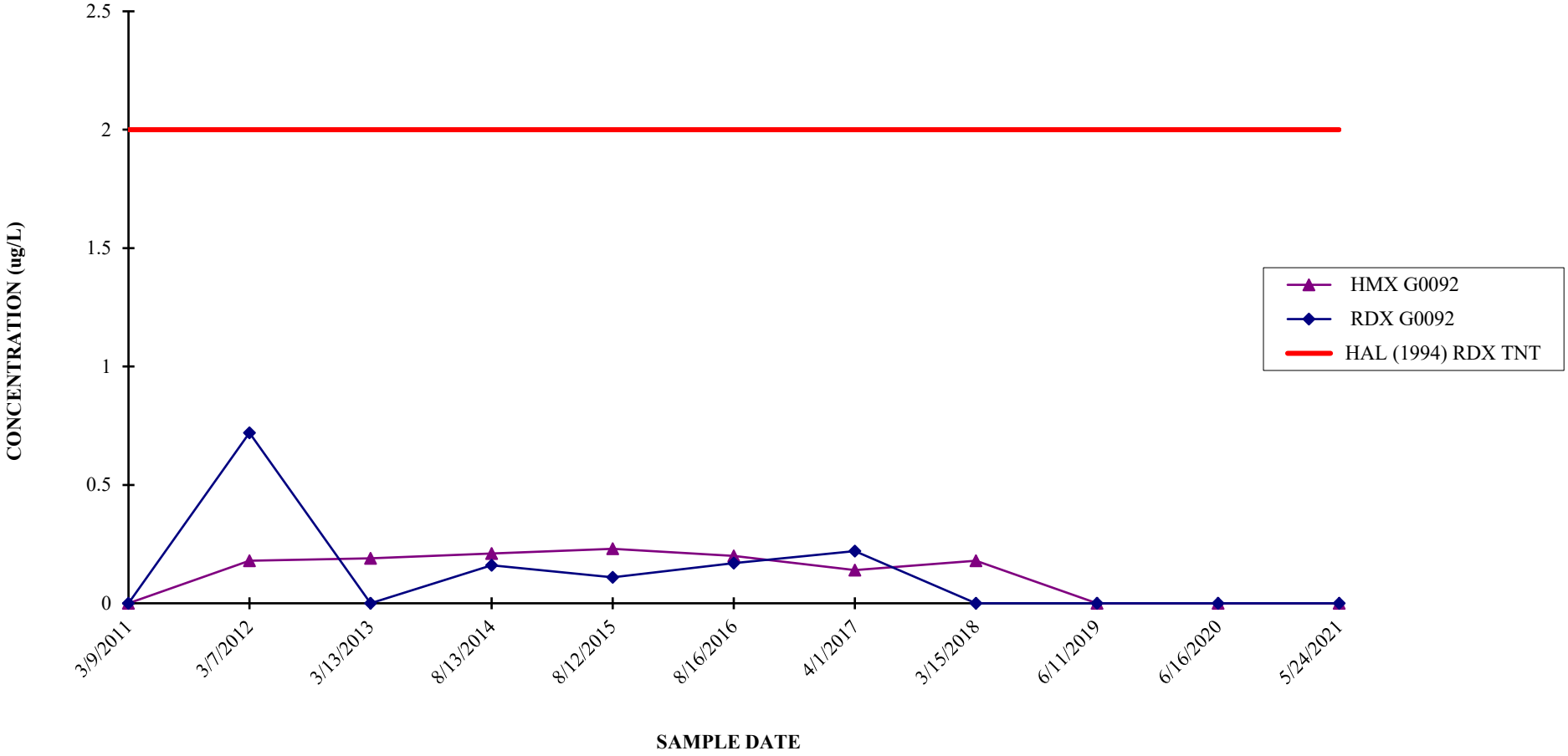
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0090 - HMX, RDX, AND TNT



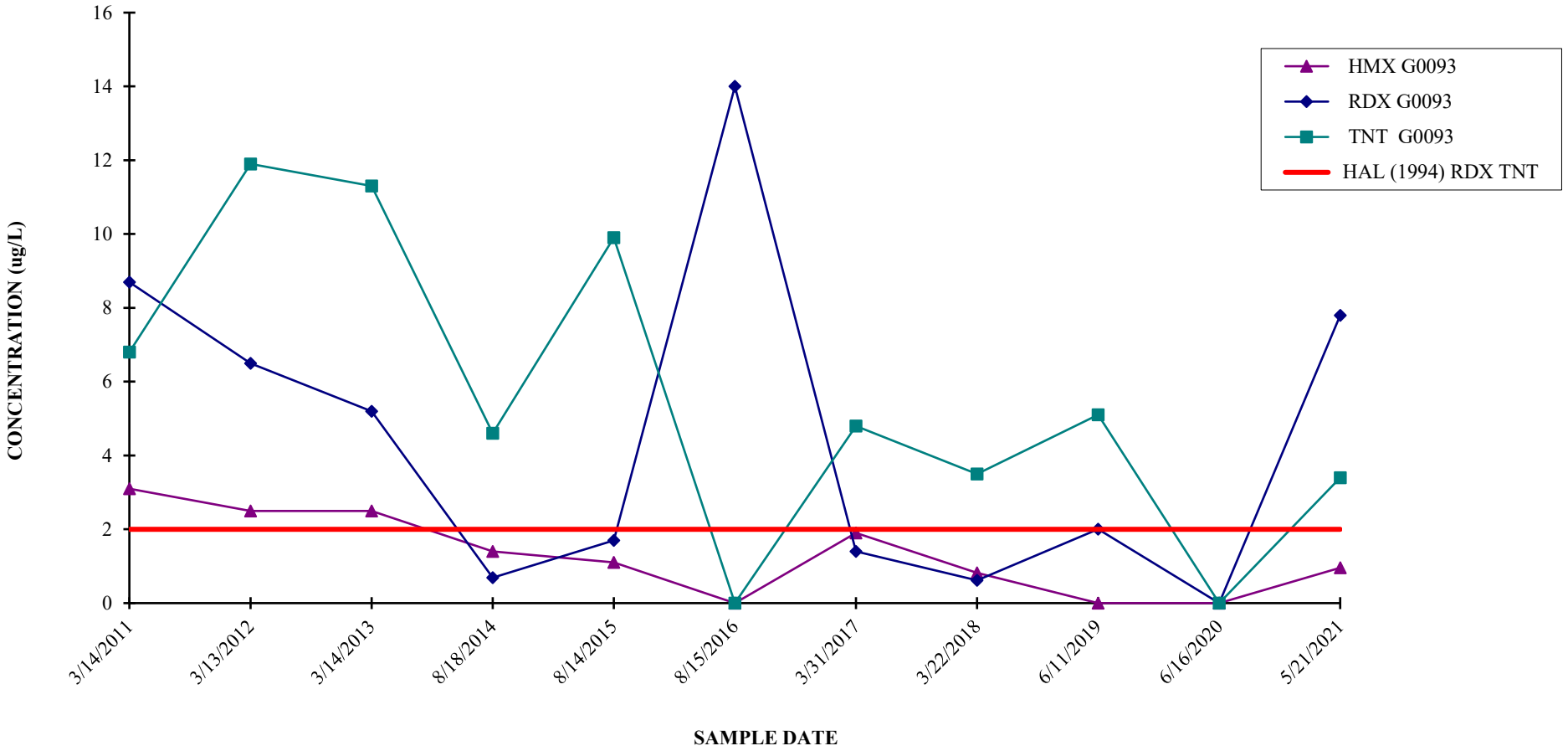
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0091 - HMX, RDX, AND TNT



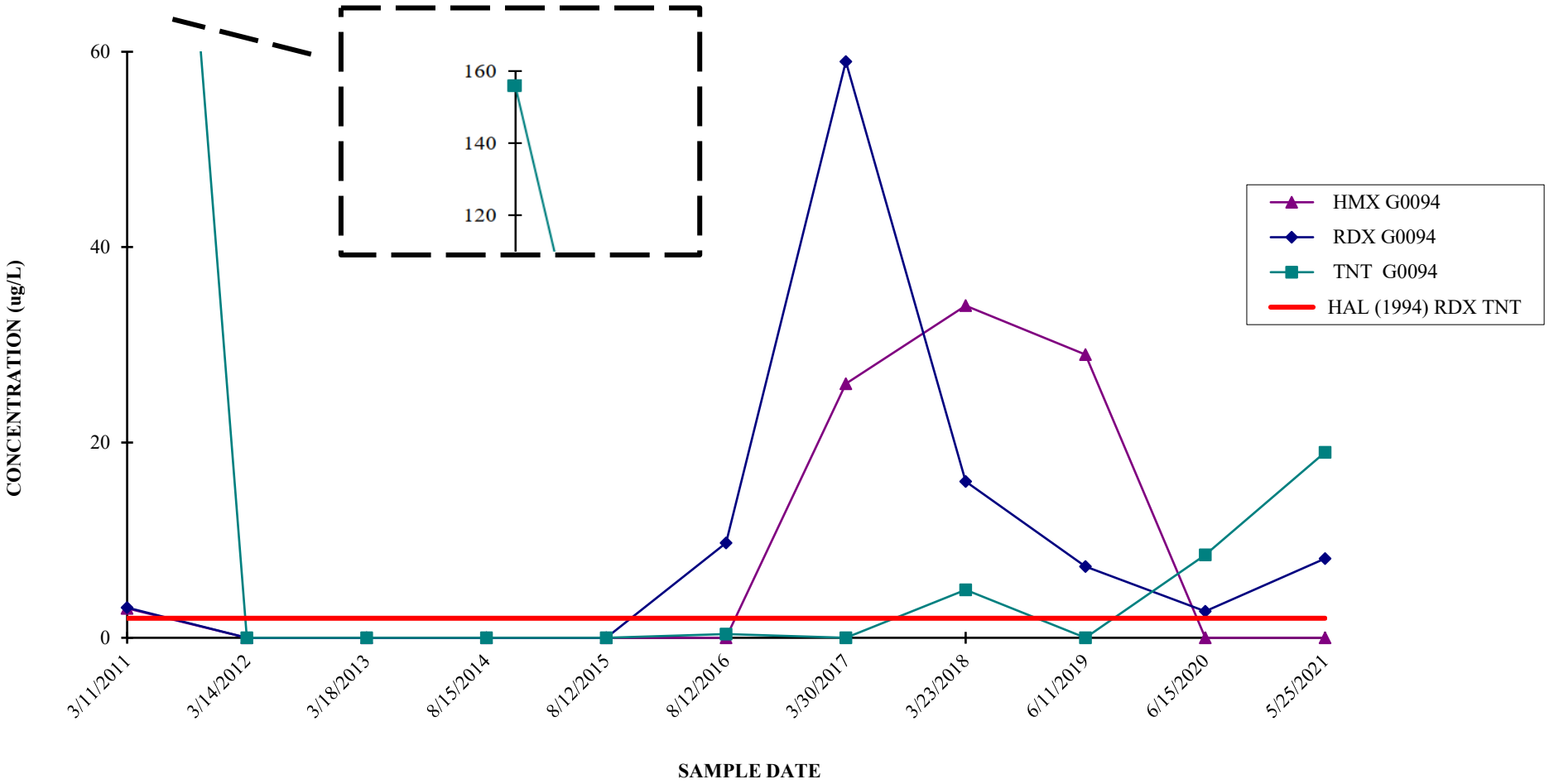
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0092 - HMX AND RDX



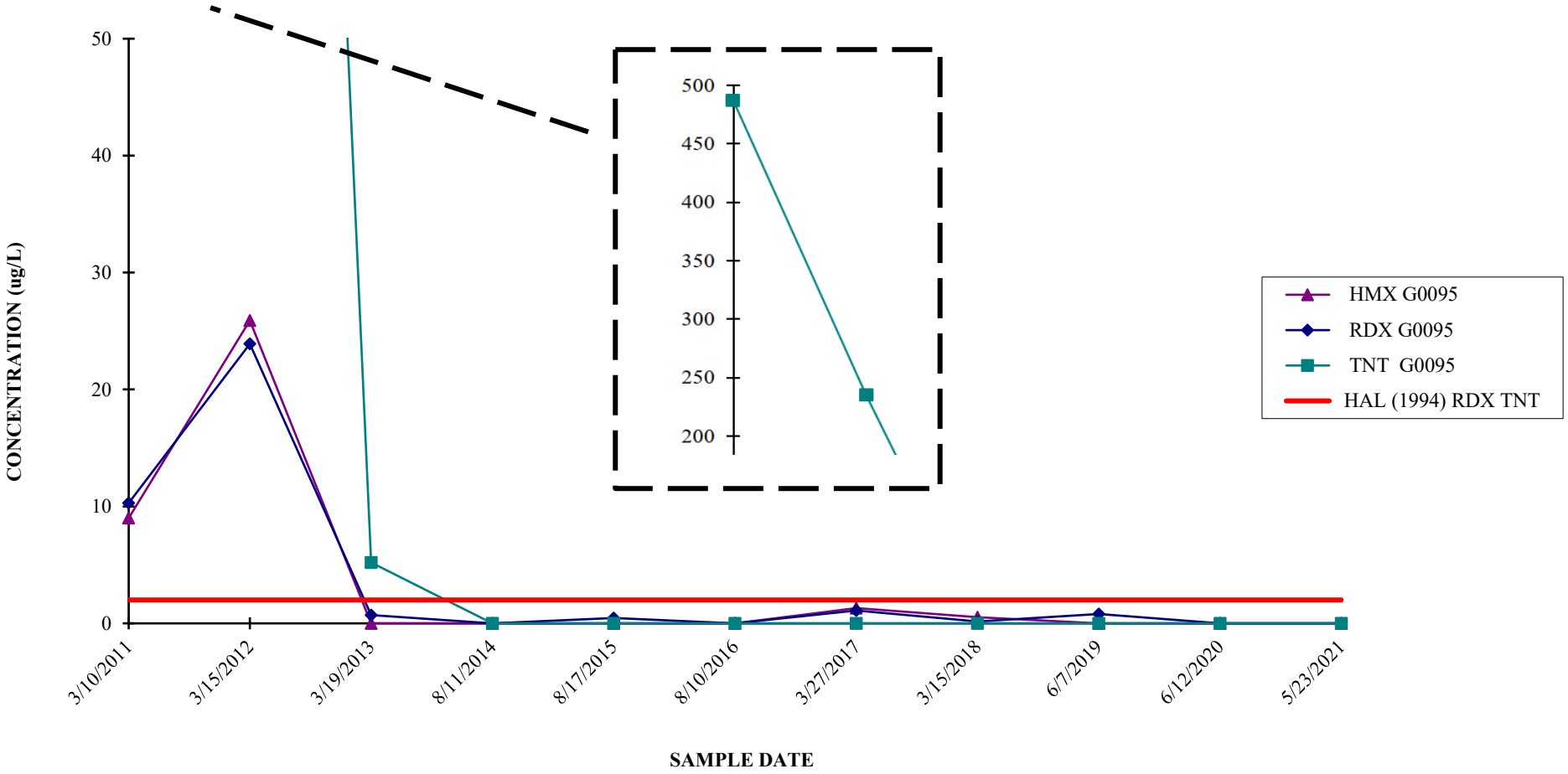
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0093 - HMX, RDX, AND TNT



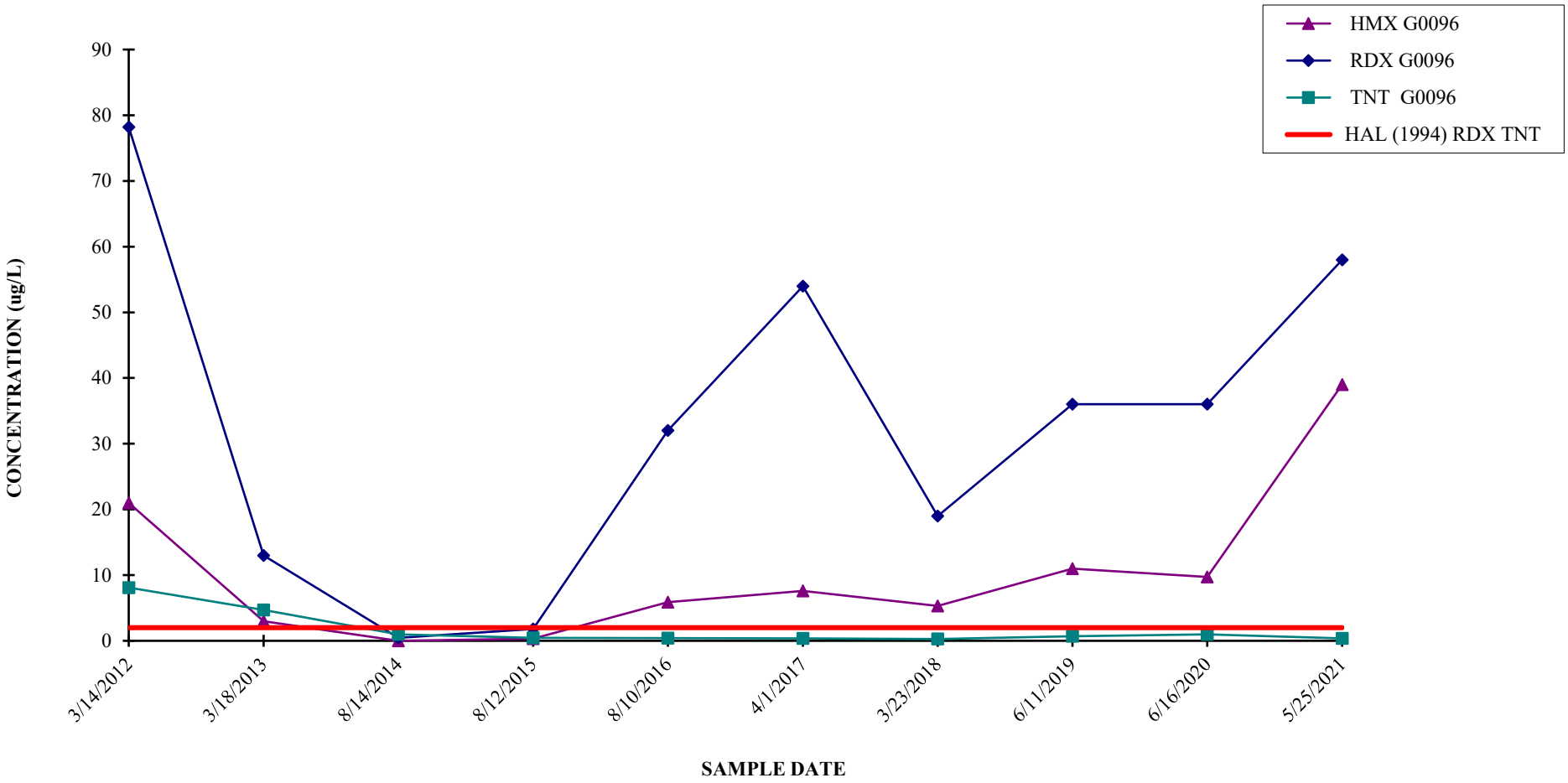
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0094 - HMX, RDX, AND TNT



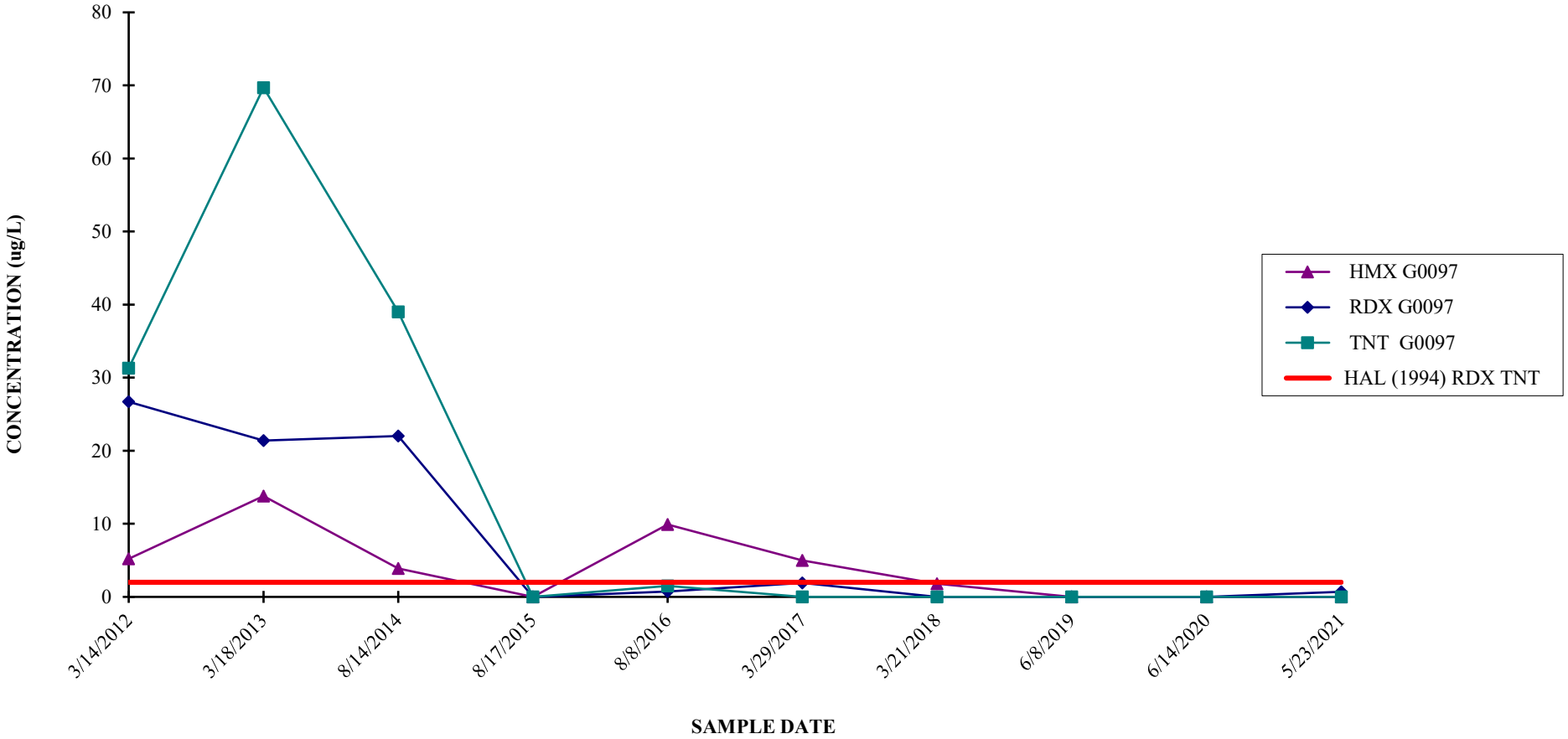
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0095 - HMX, RDX, AND TNT



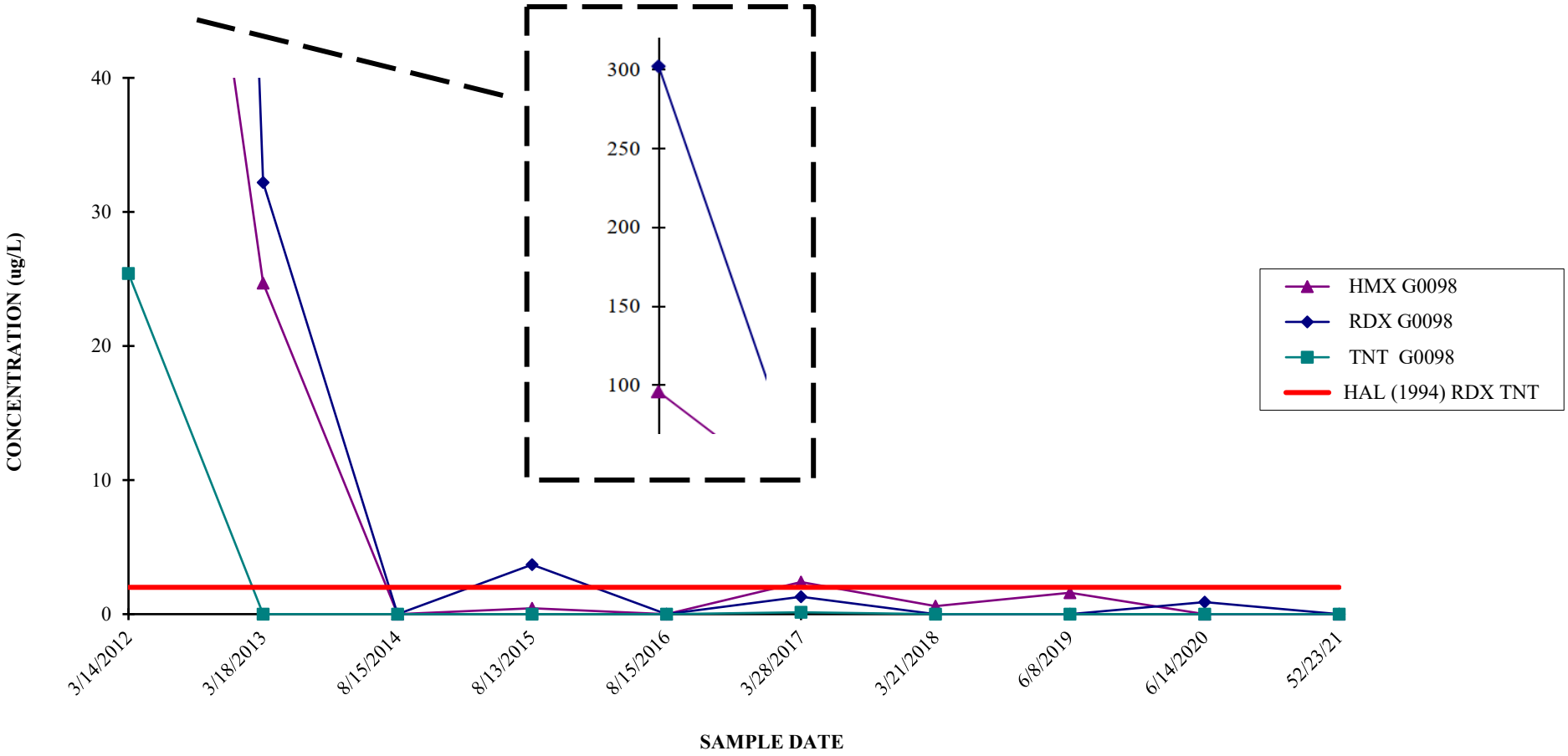
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0096 - HMX, RDX, AND TNT



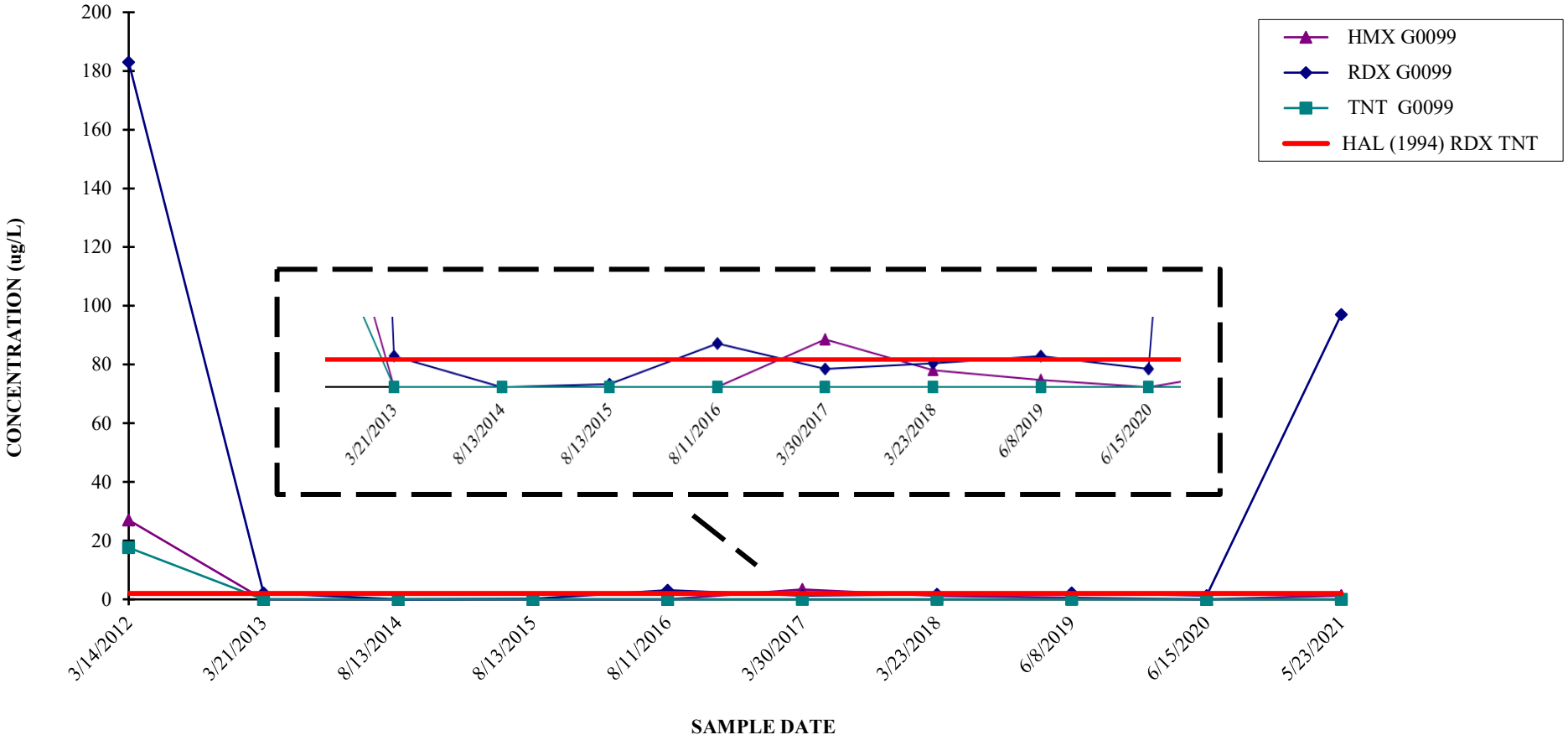
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0097 - HMX, RDX, AND TNT



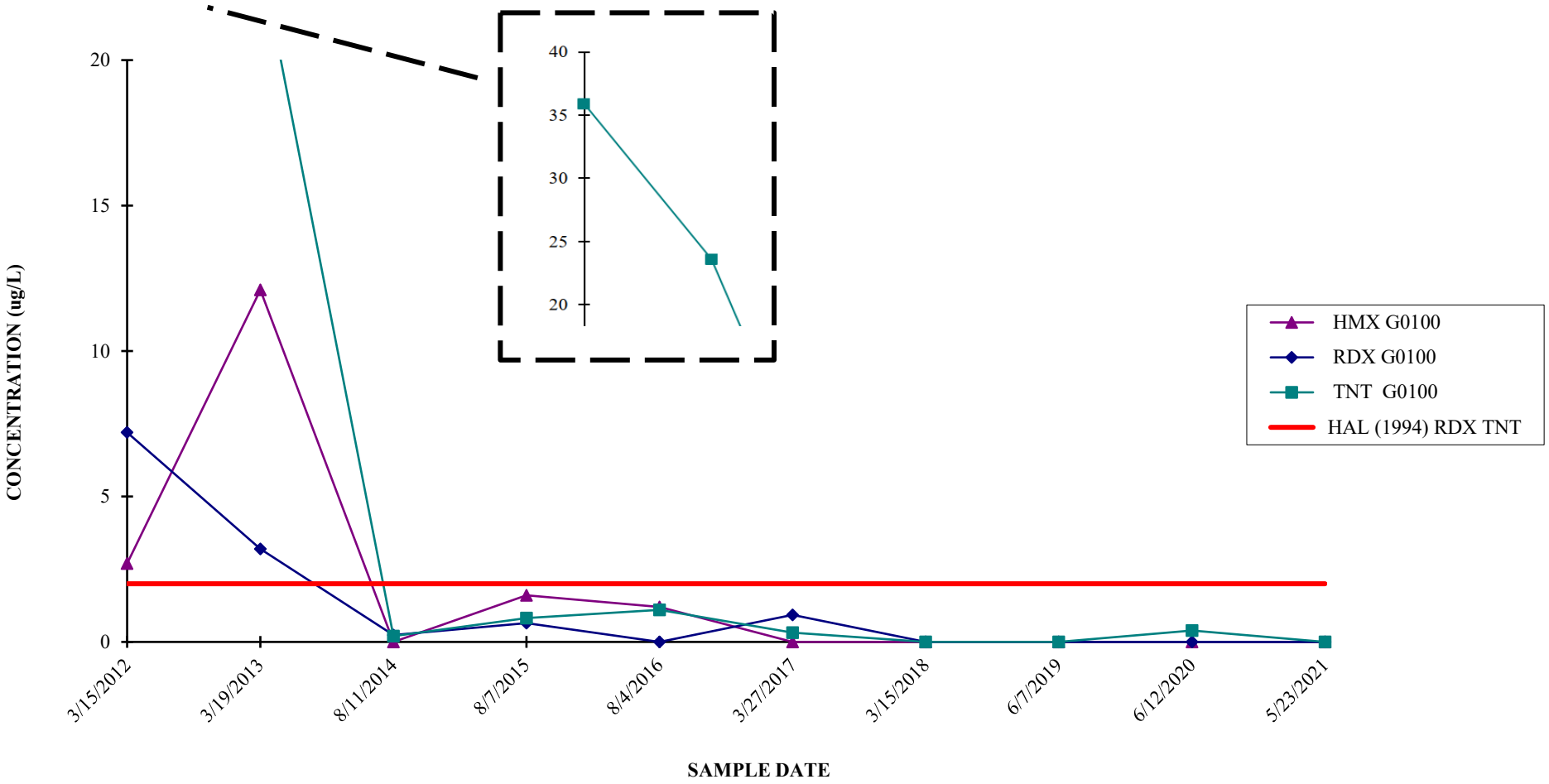
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0098 - HMX, RDX, AND TNT



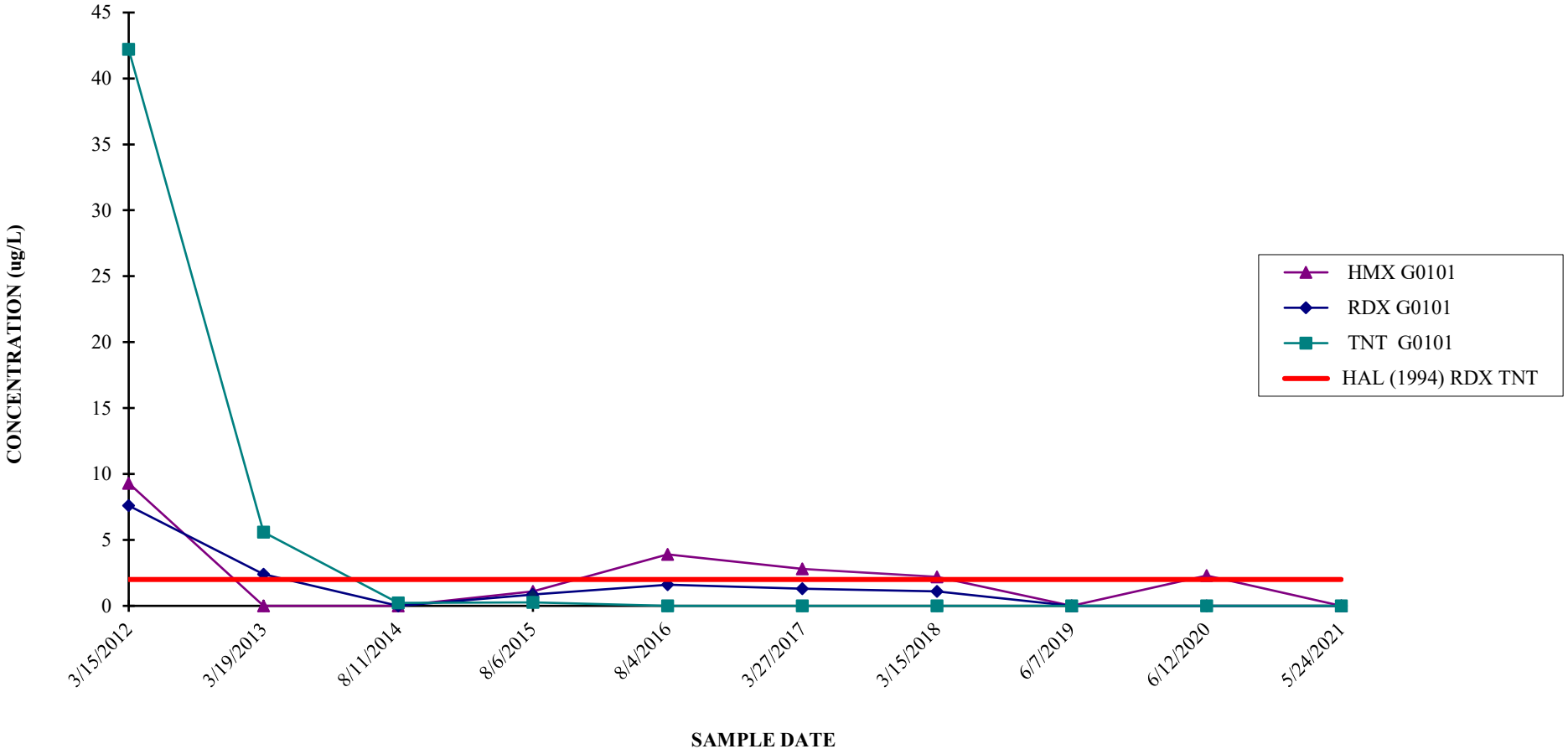
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0099 - HMX, RDX, AND TNT



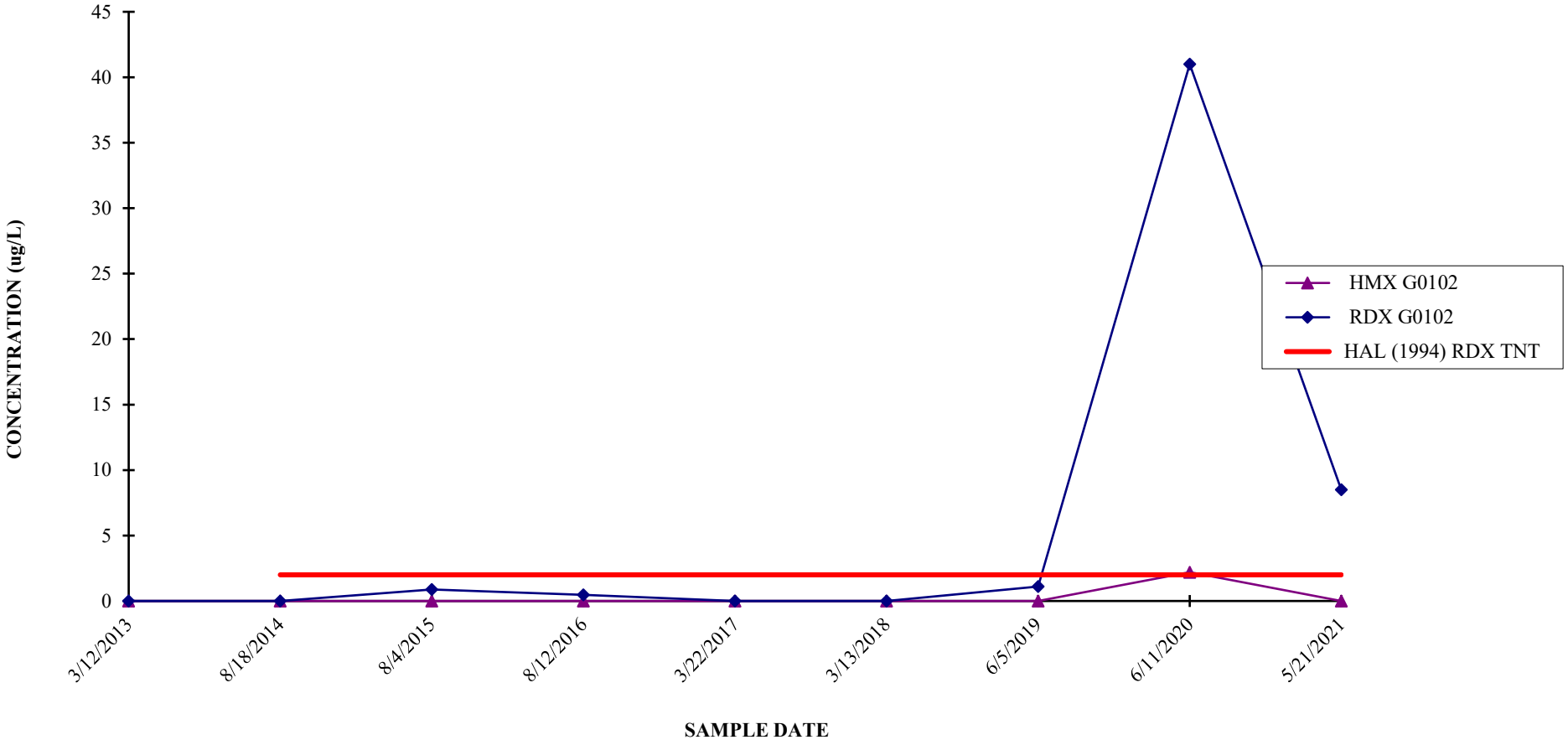
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0100 - HMX, RDX, AND TNT



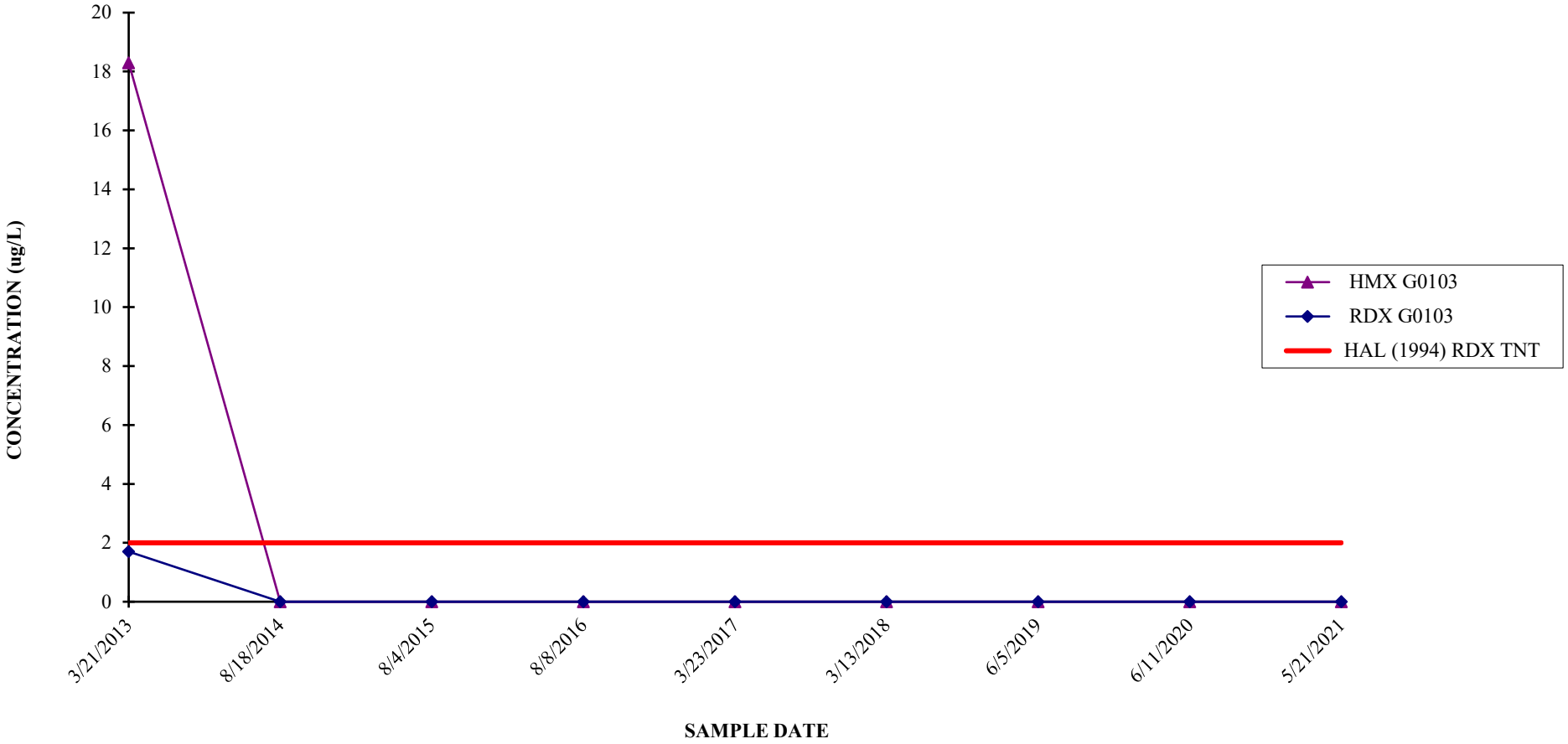
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0101 - HMX, RDX, AND TNT



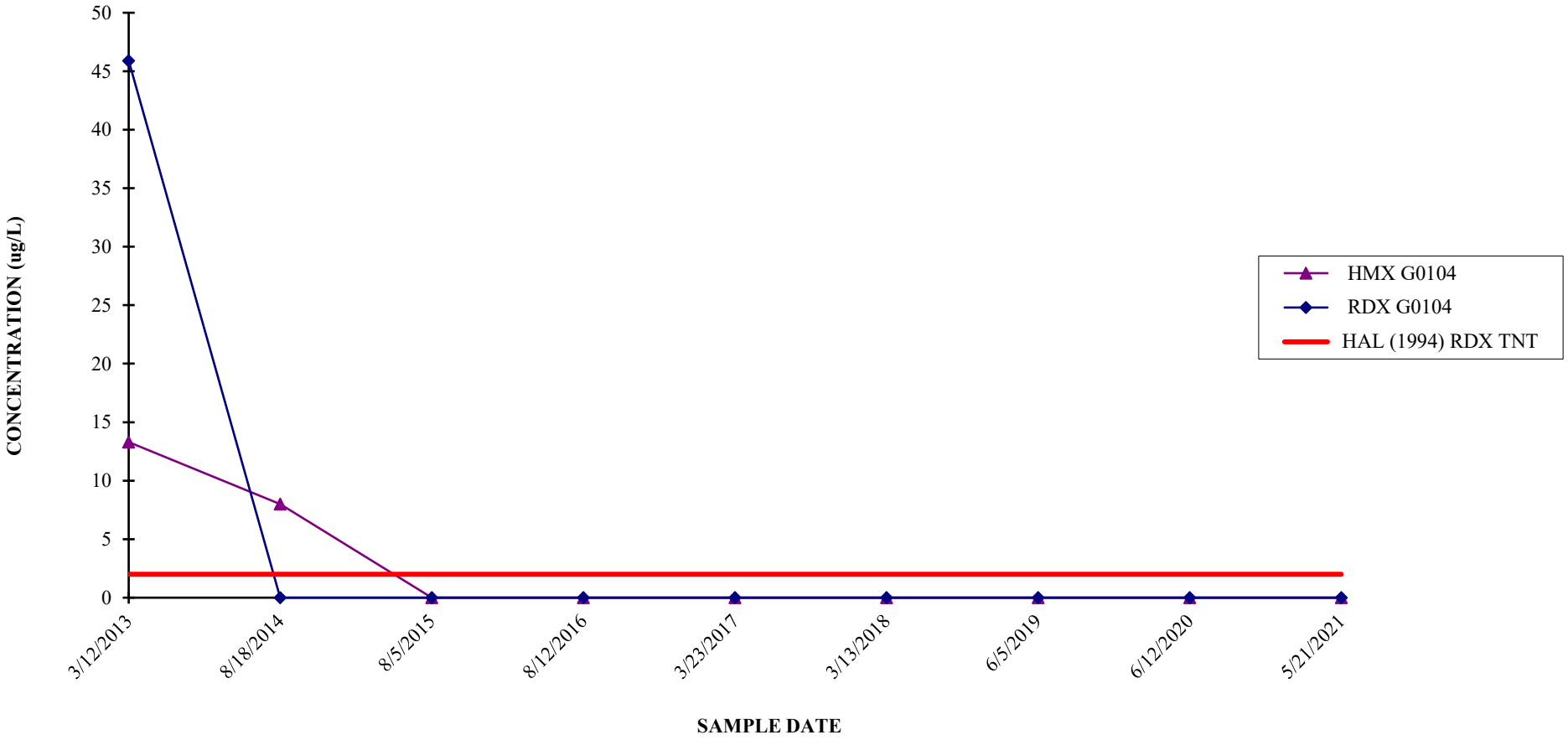
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0102 - HMX AND RDX



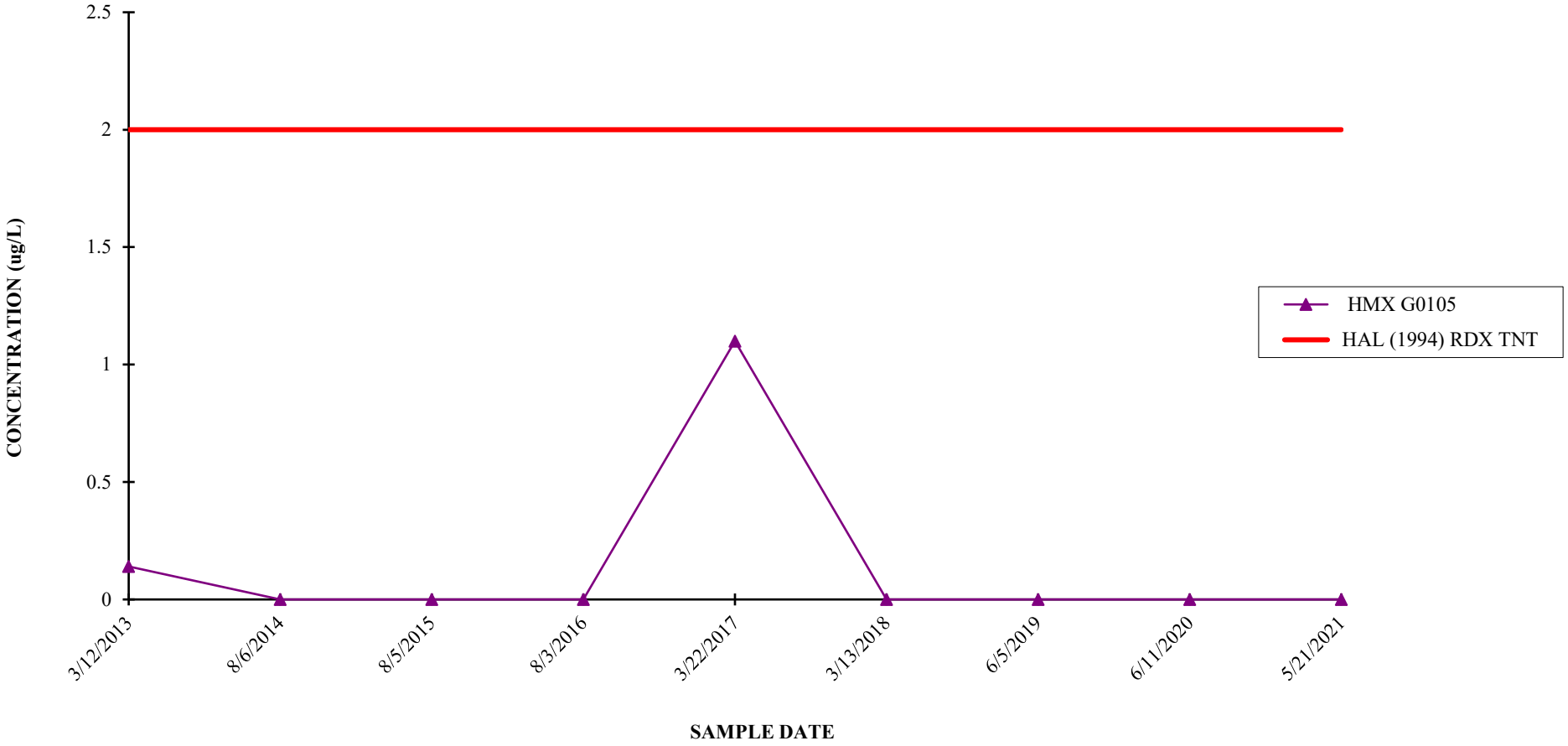
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0103 - HMX AND RDX



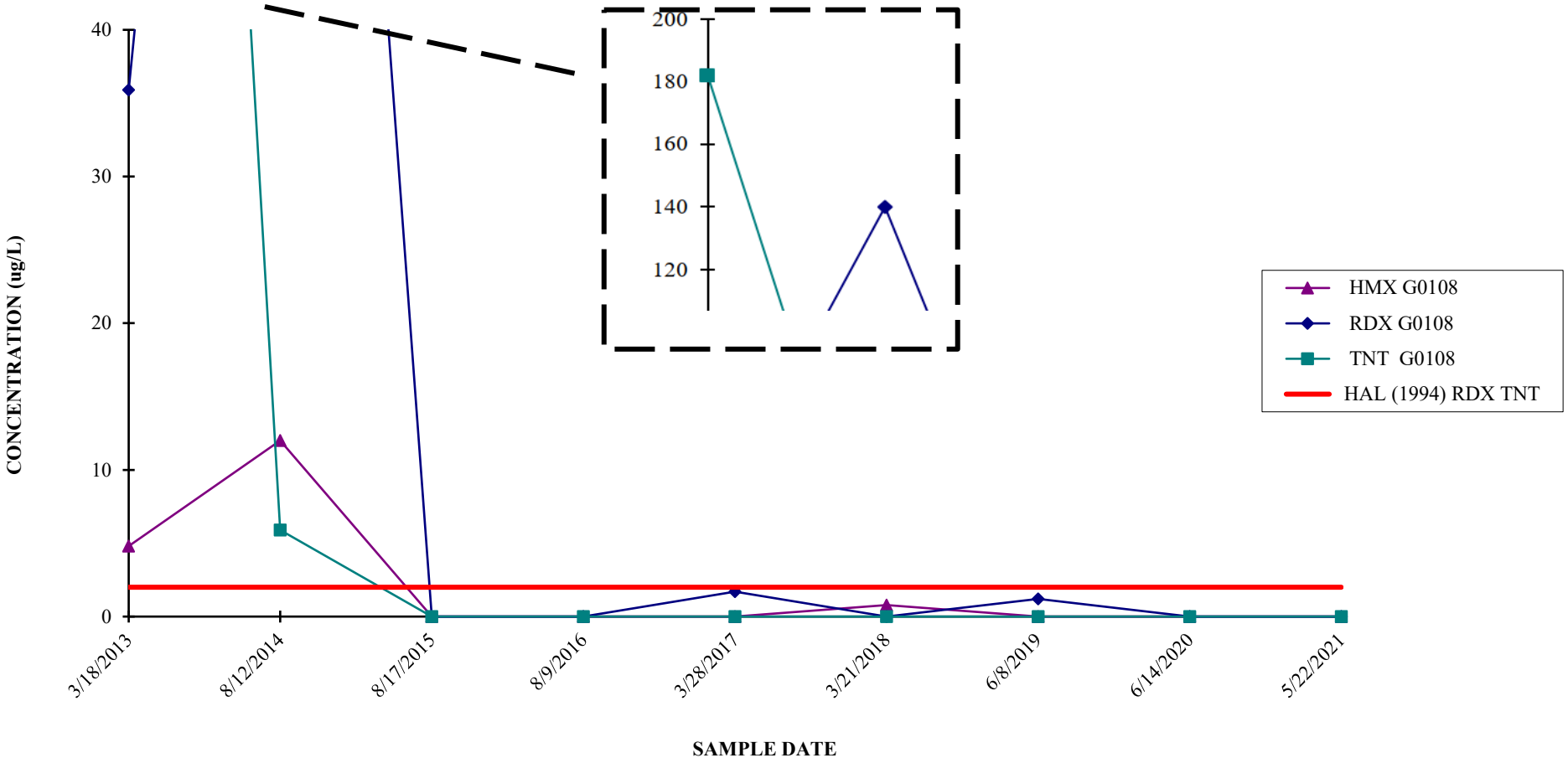
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0104 - HMX AND RDX



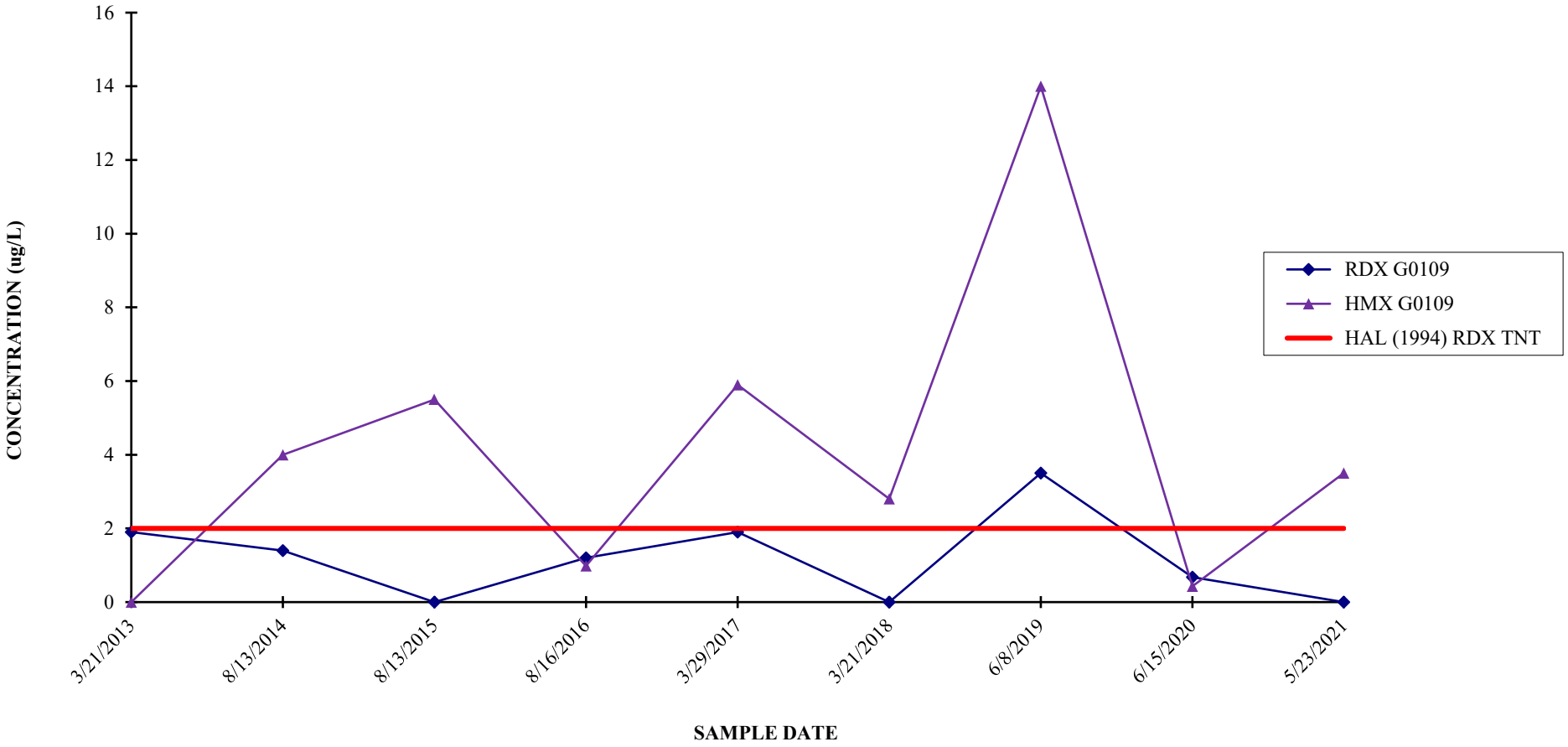
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0105 - HMX



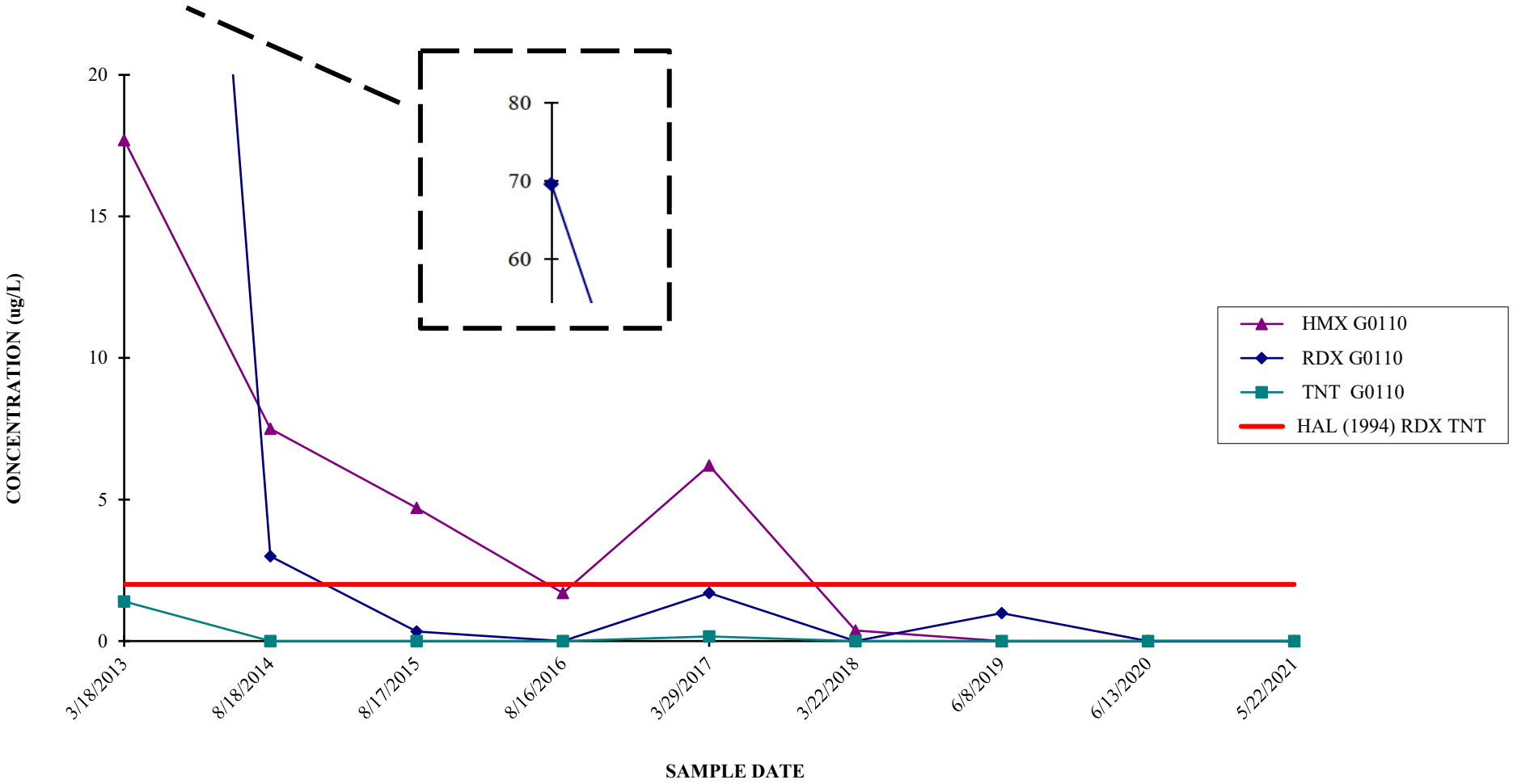
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0108 - HMX, RDX, AND TNT



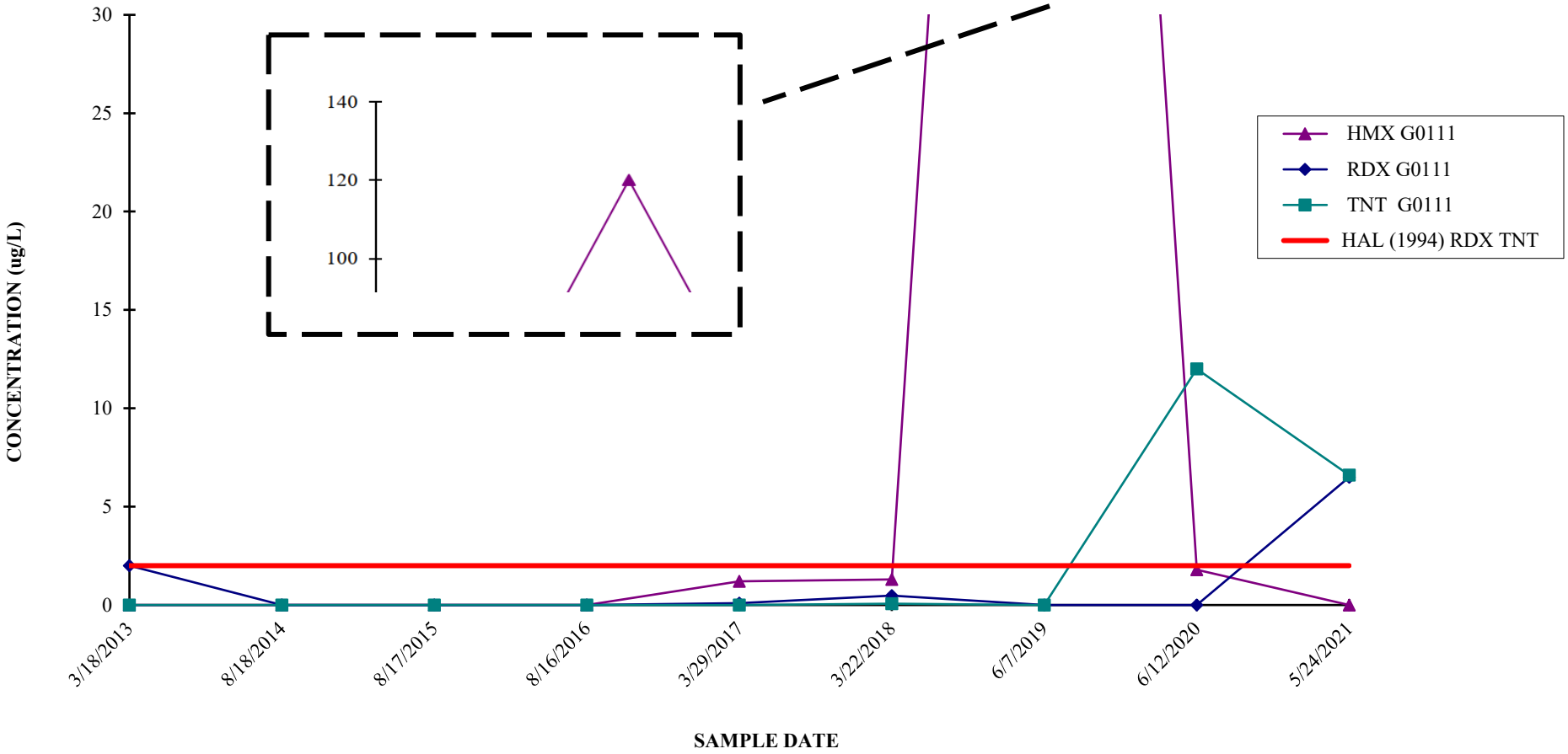
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0109 - HMX AND RDX



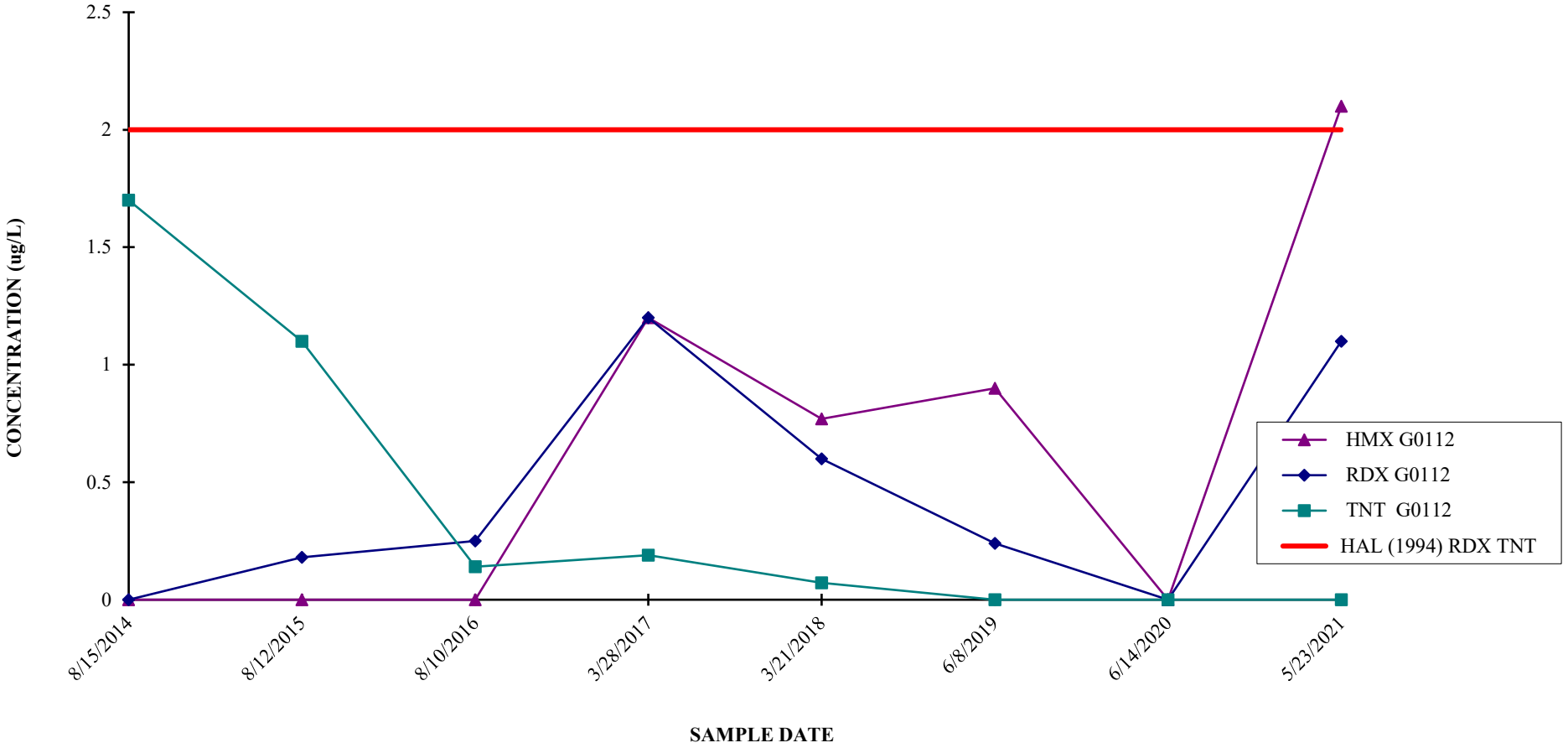
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0110 - HMX, RDX, AND TNT



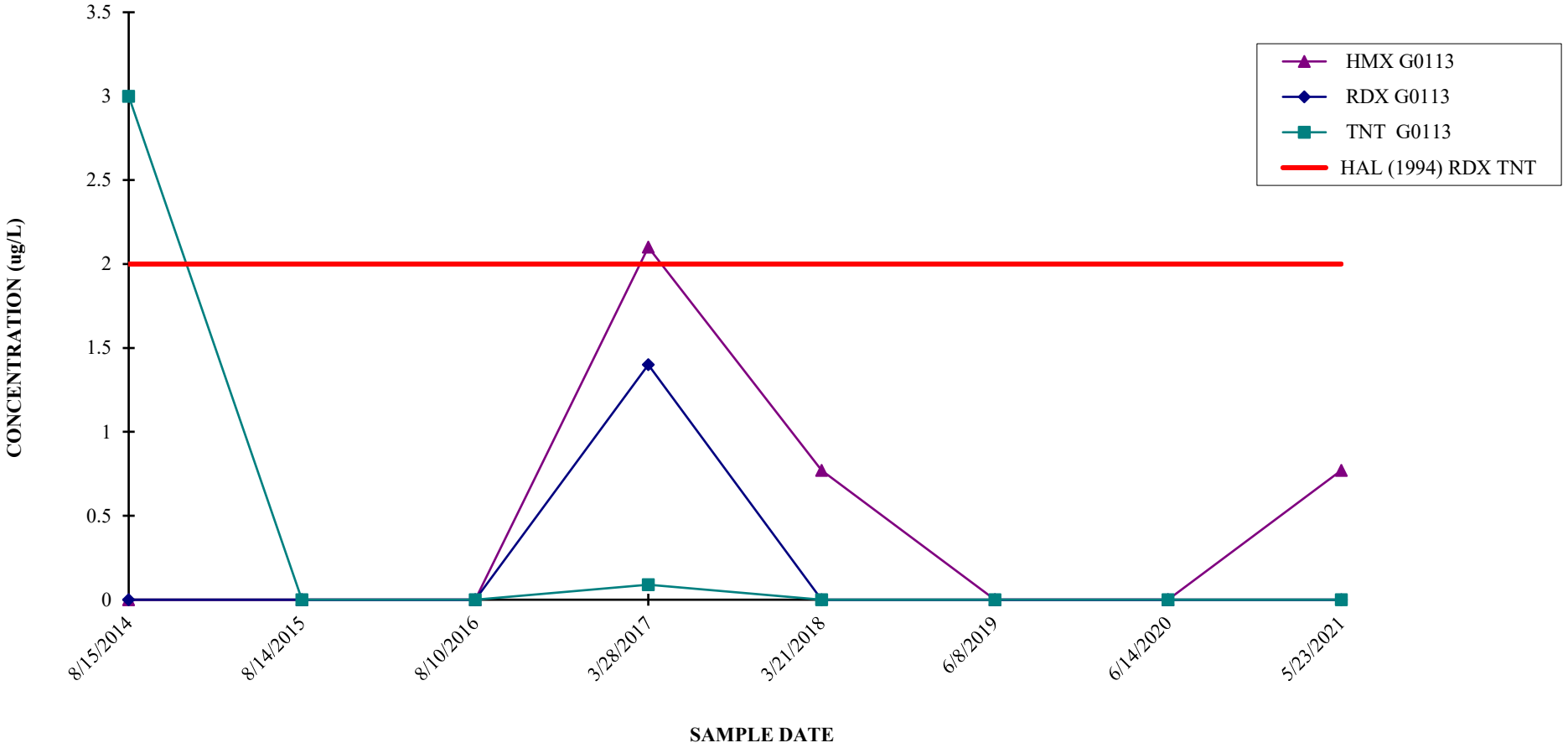
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0111 - HMX, RDX, AND TNT



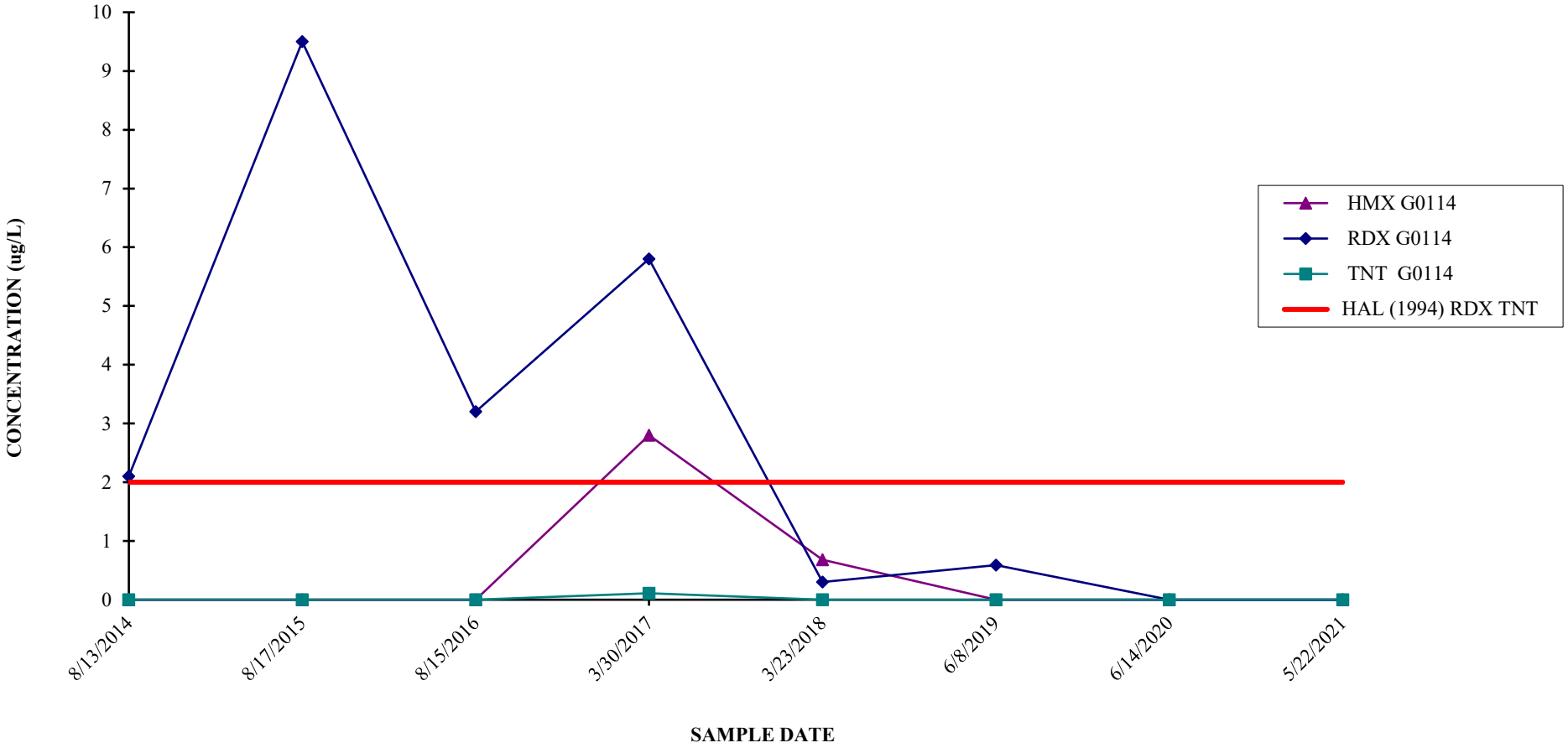
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0112 - HMX, RDX, AND TNT



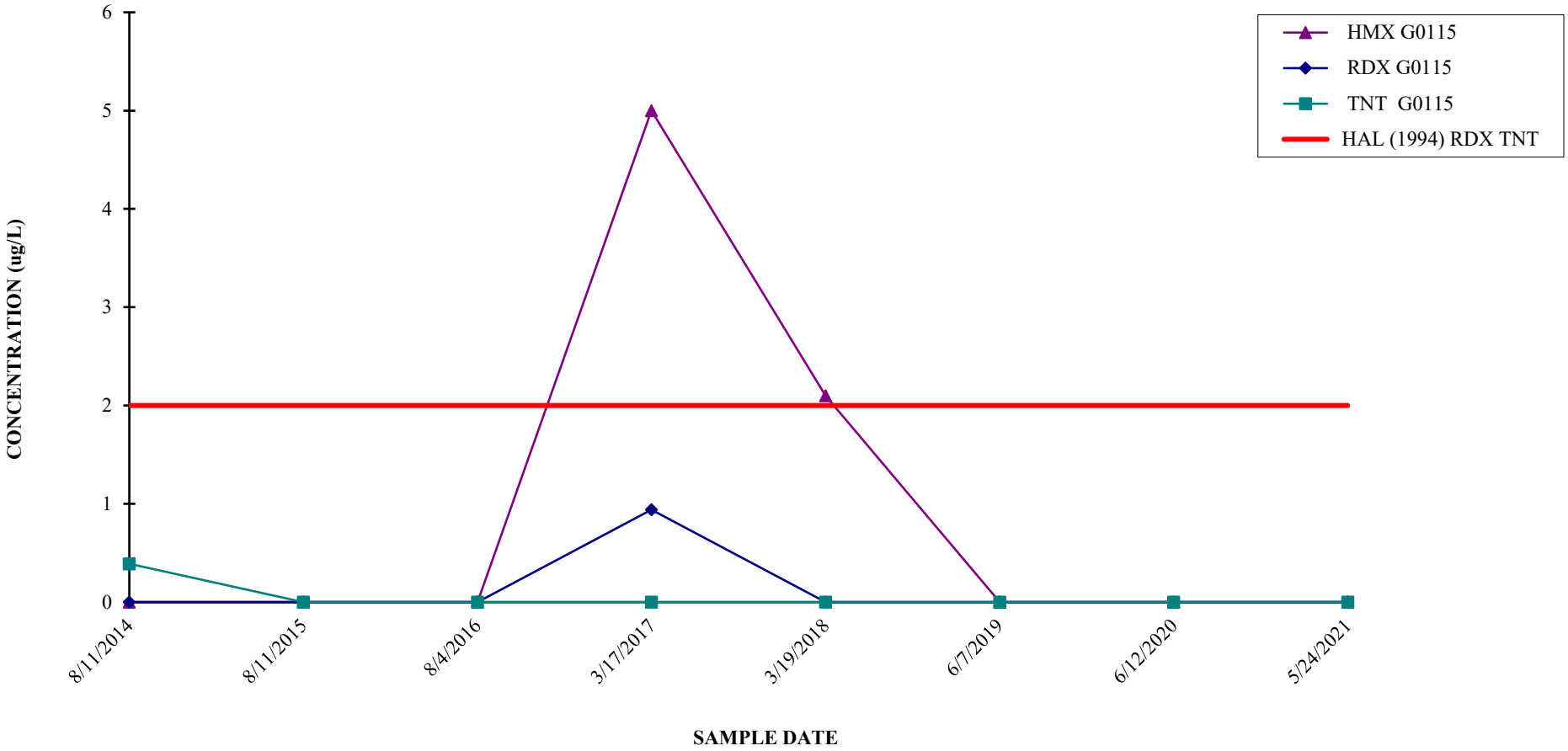
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0113 - HMX, RDX, AND TNT



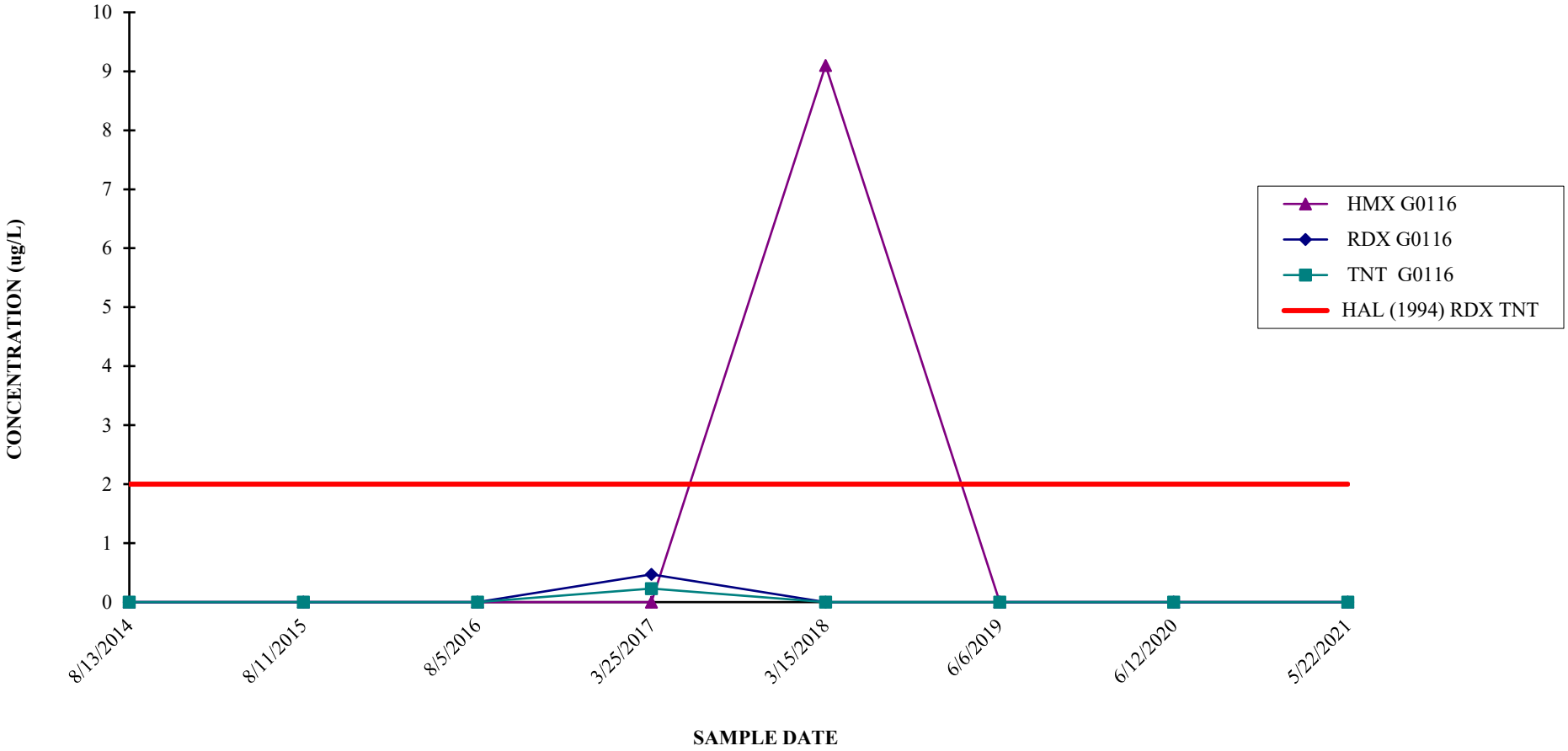
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0114 - HMX, RDX, AND TNT



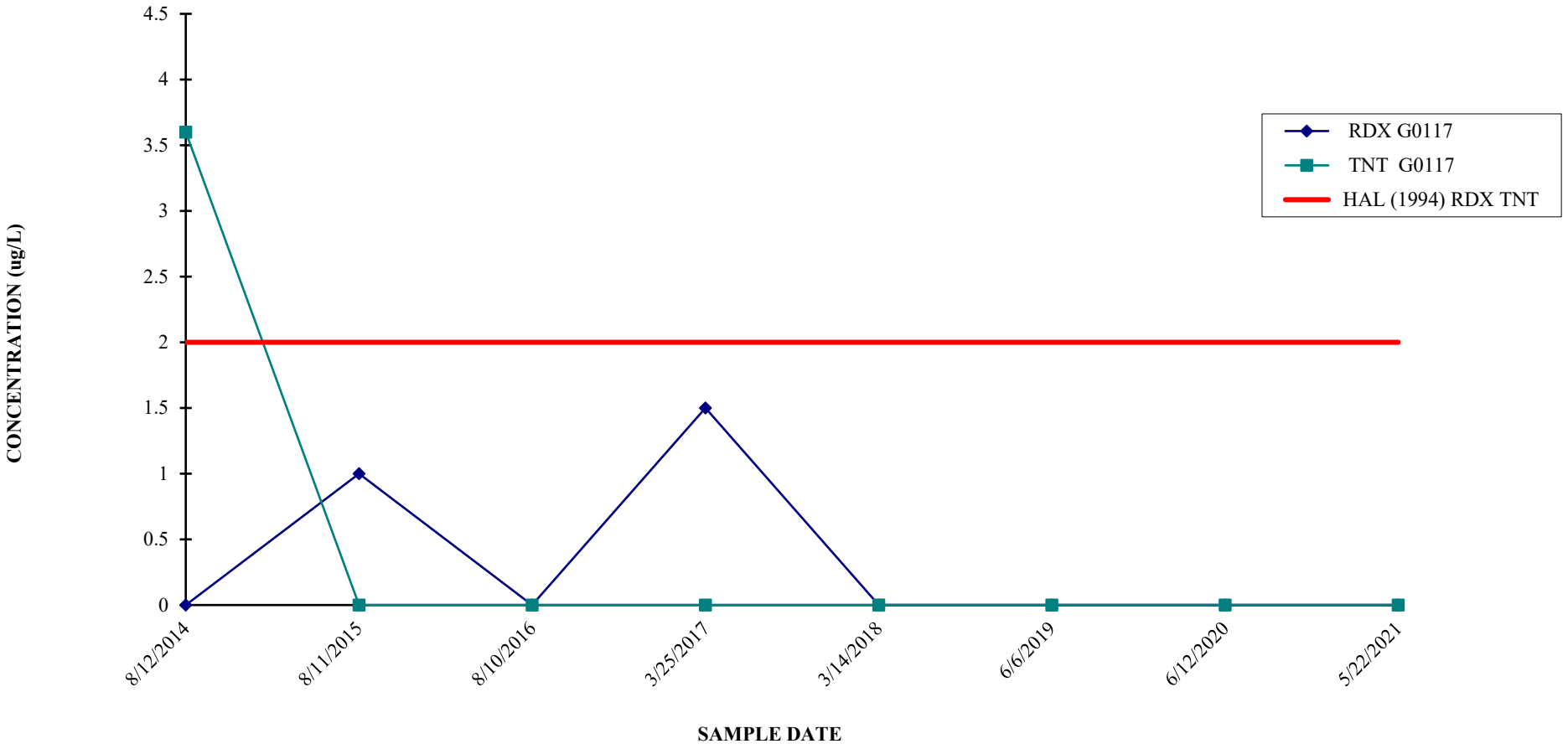
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0115 - HMX, RDX, AND TNT



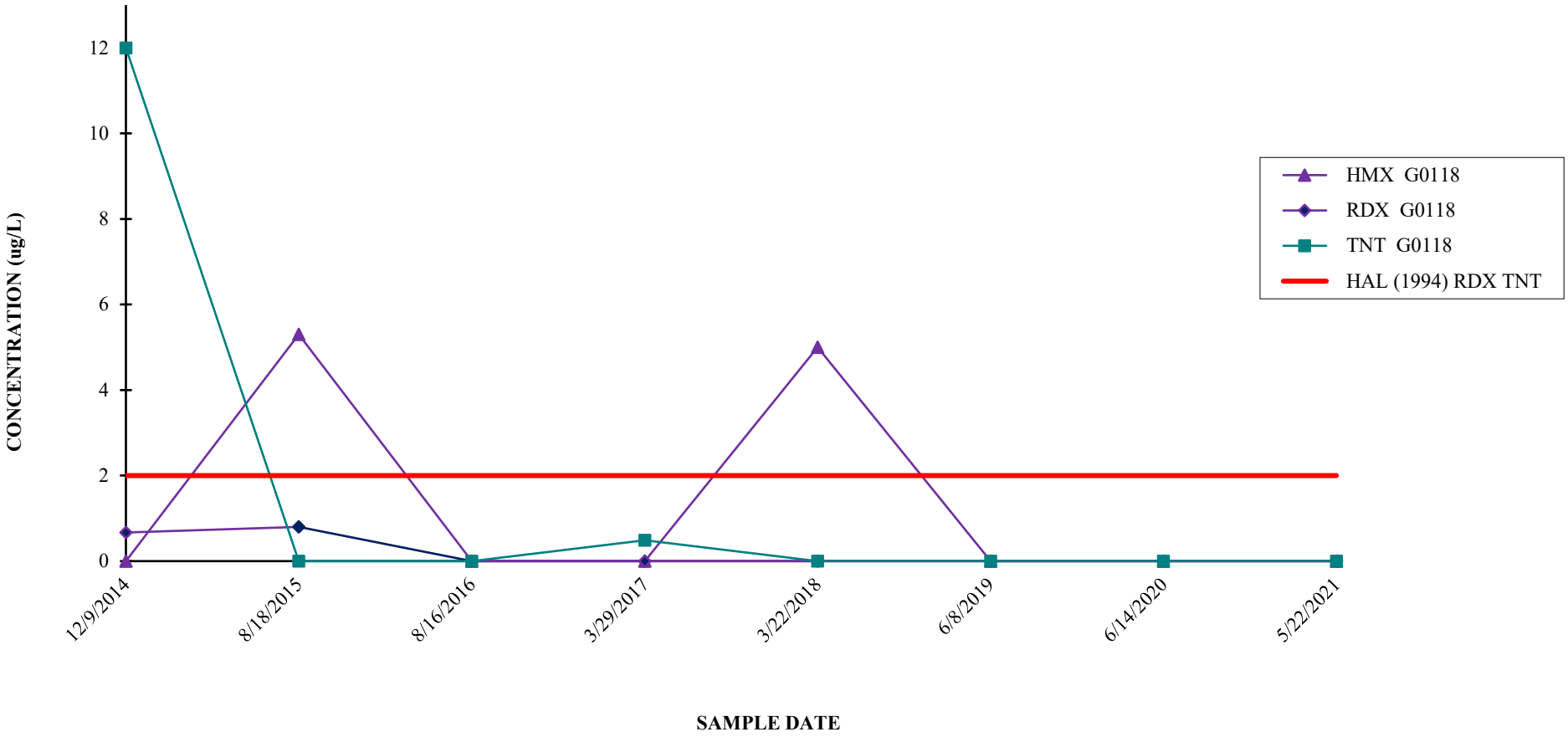
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0116 - HMX, RDX, AND TNT



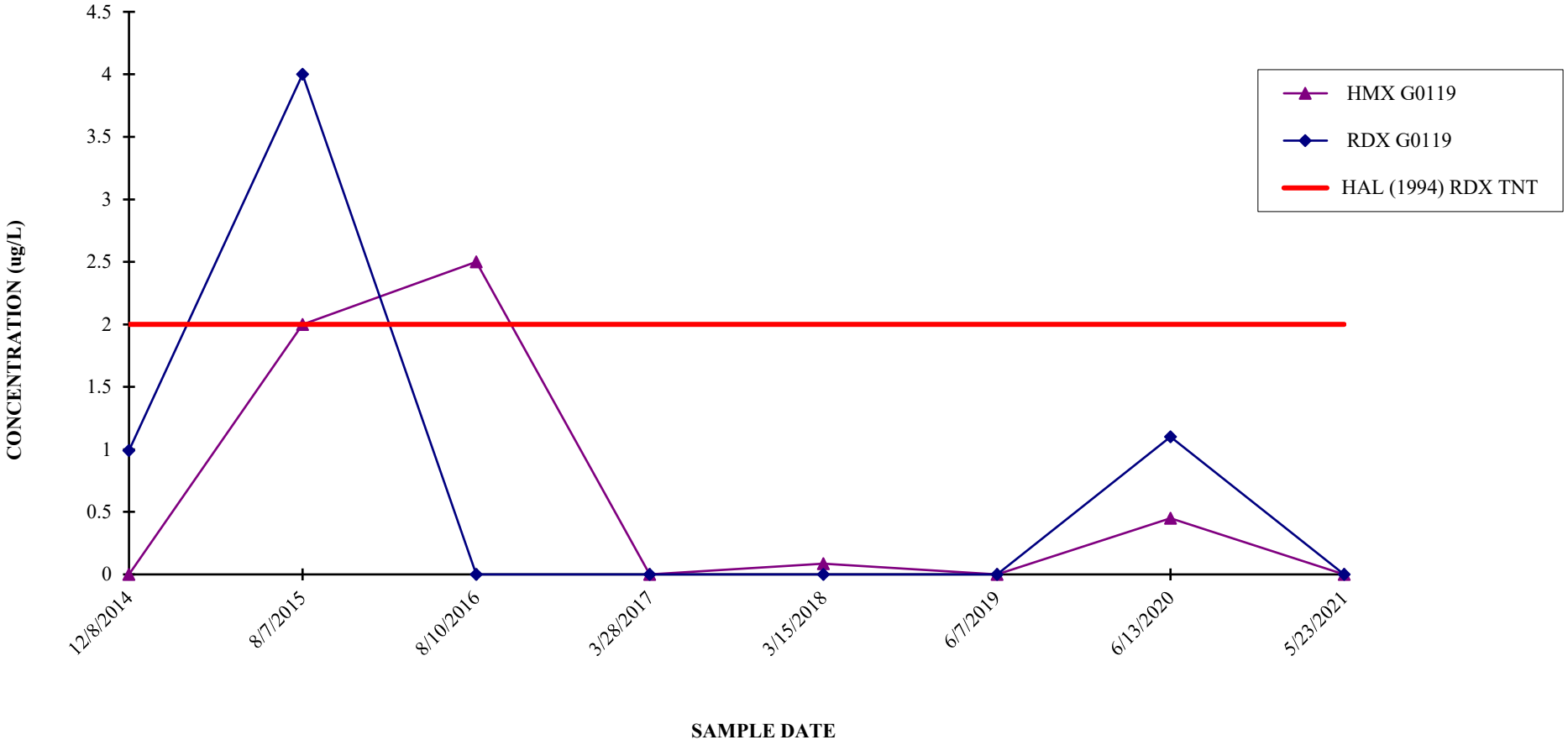
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0117 - RDX and TNT



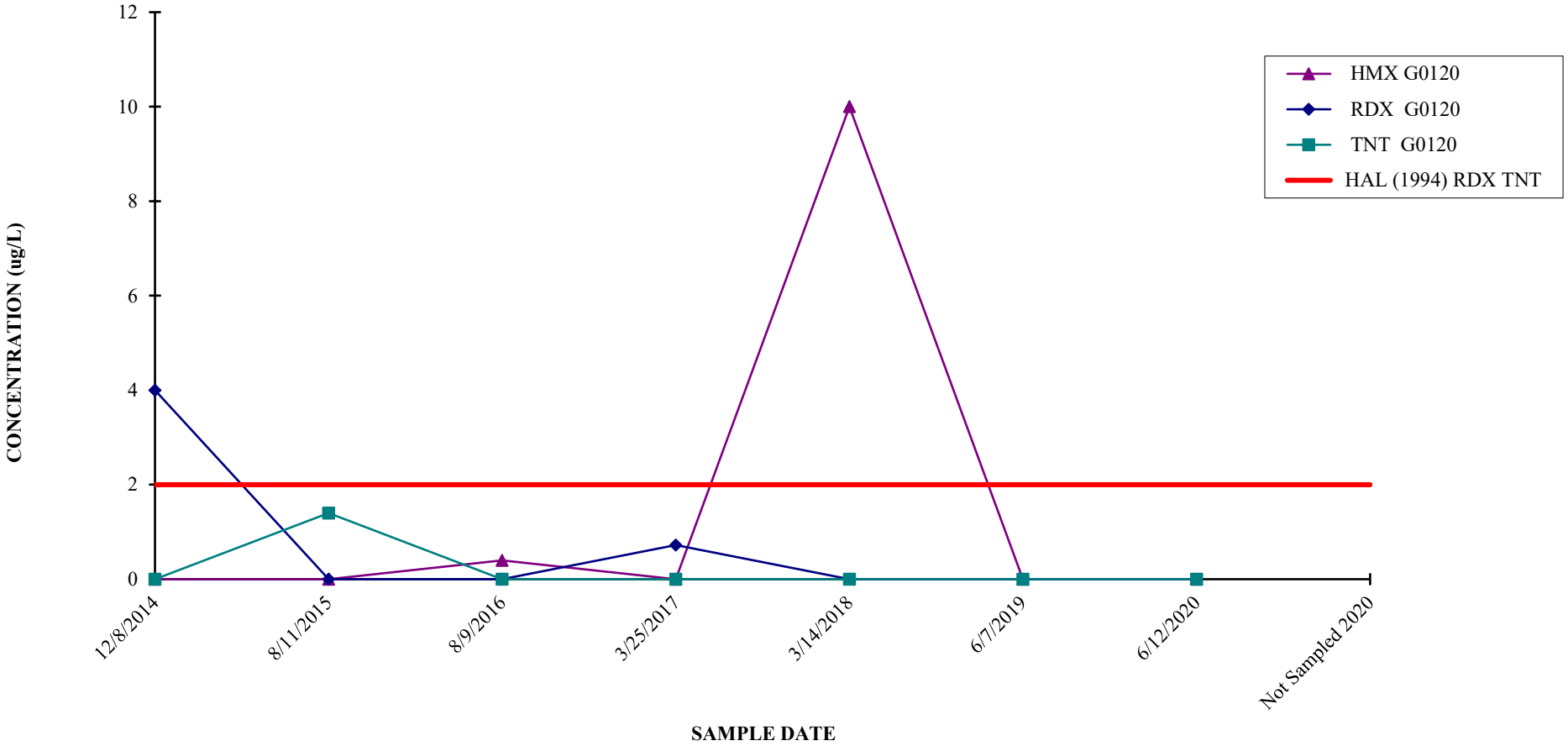
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0118 - HMX, RDX, AND TNT



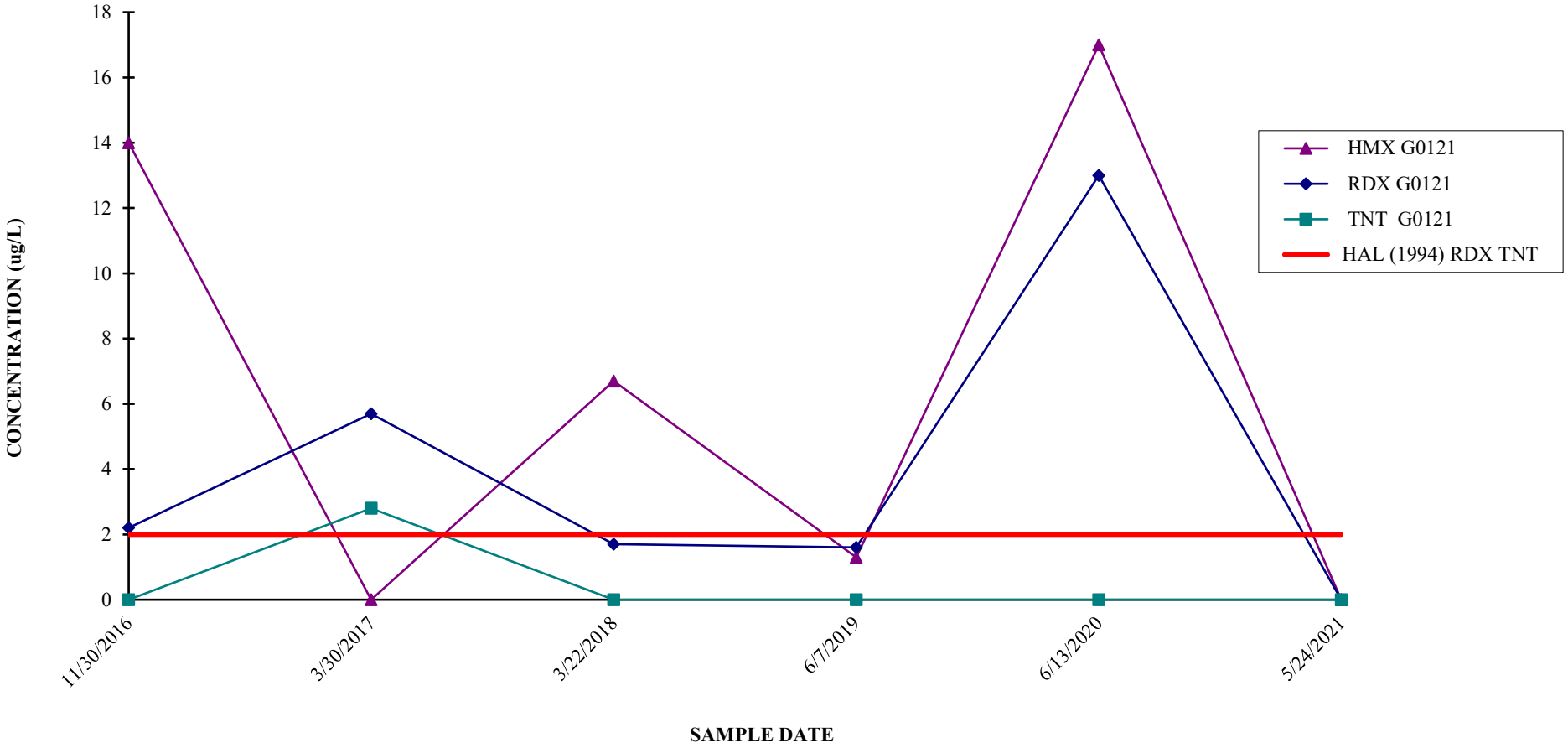
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0119 - HMX AND RDX



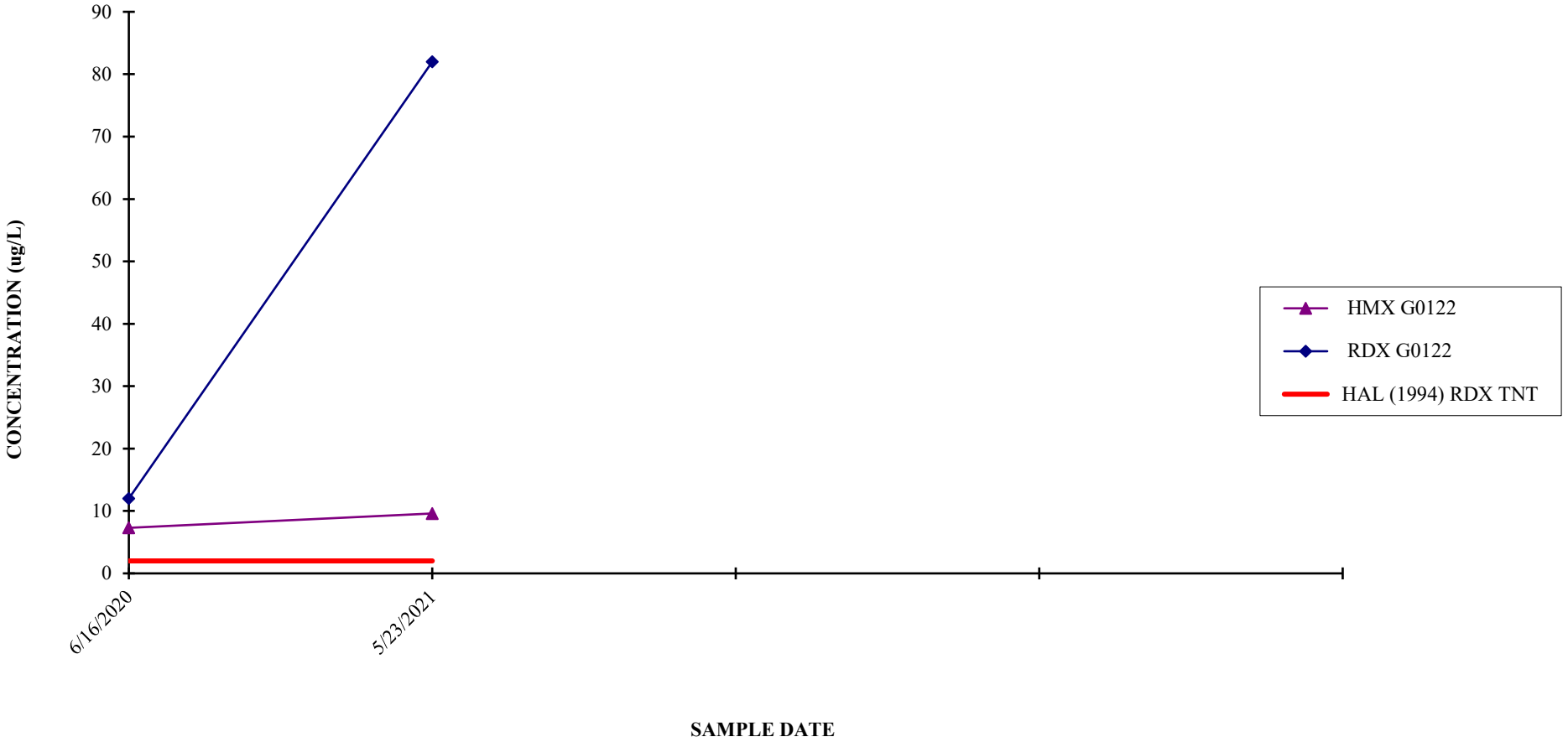
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0120 - HMX, RDX, AND TNT



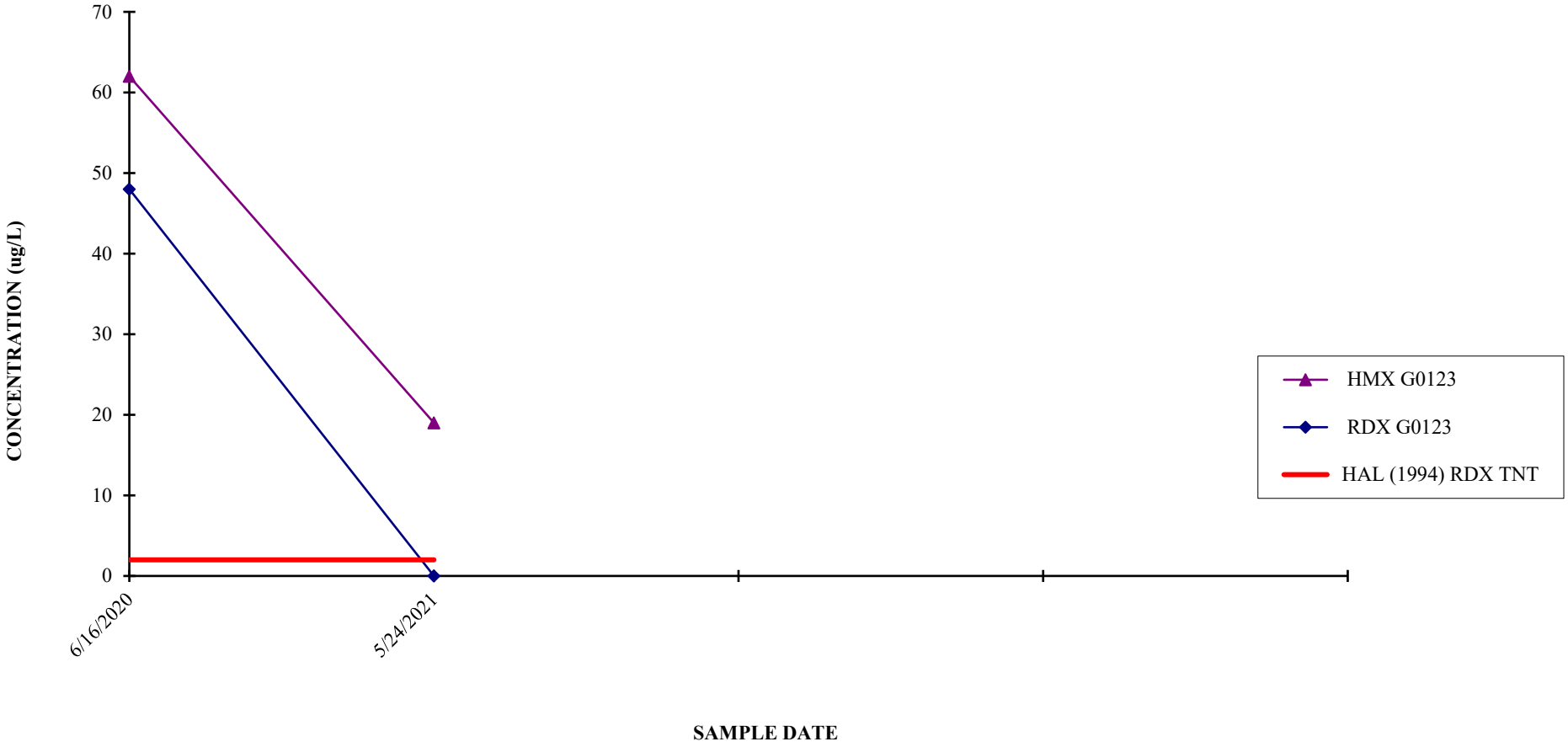
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0121 - HMX, RDX, AND TNT



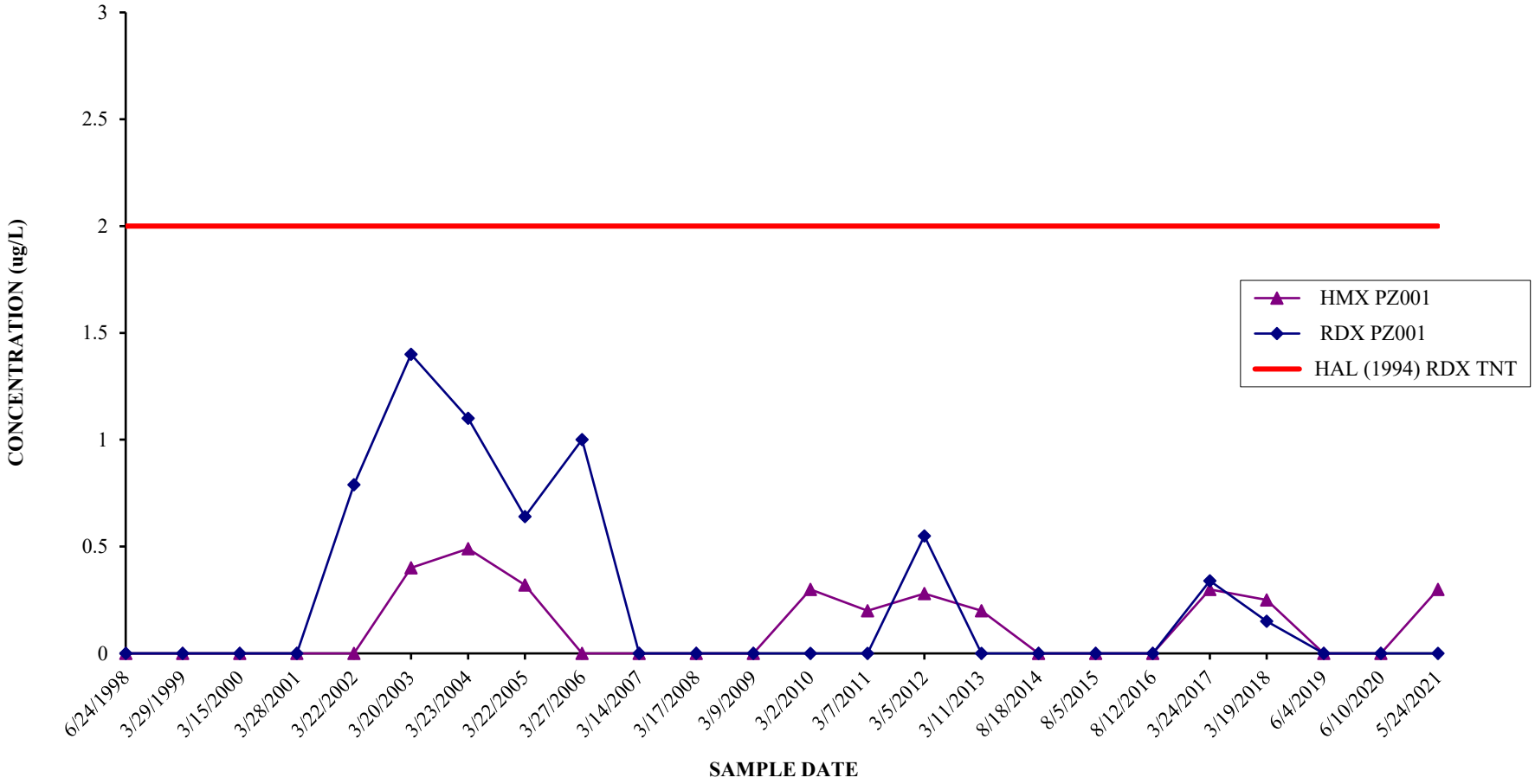
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0122 - HMX AND RDX



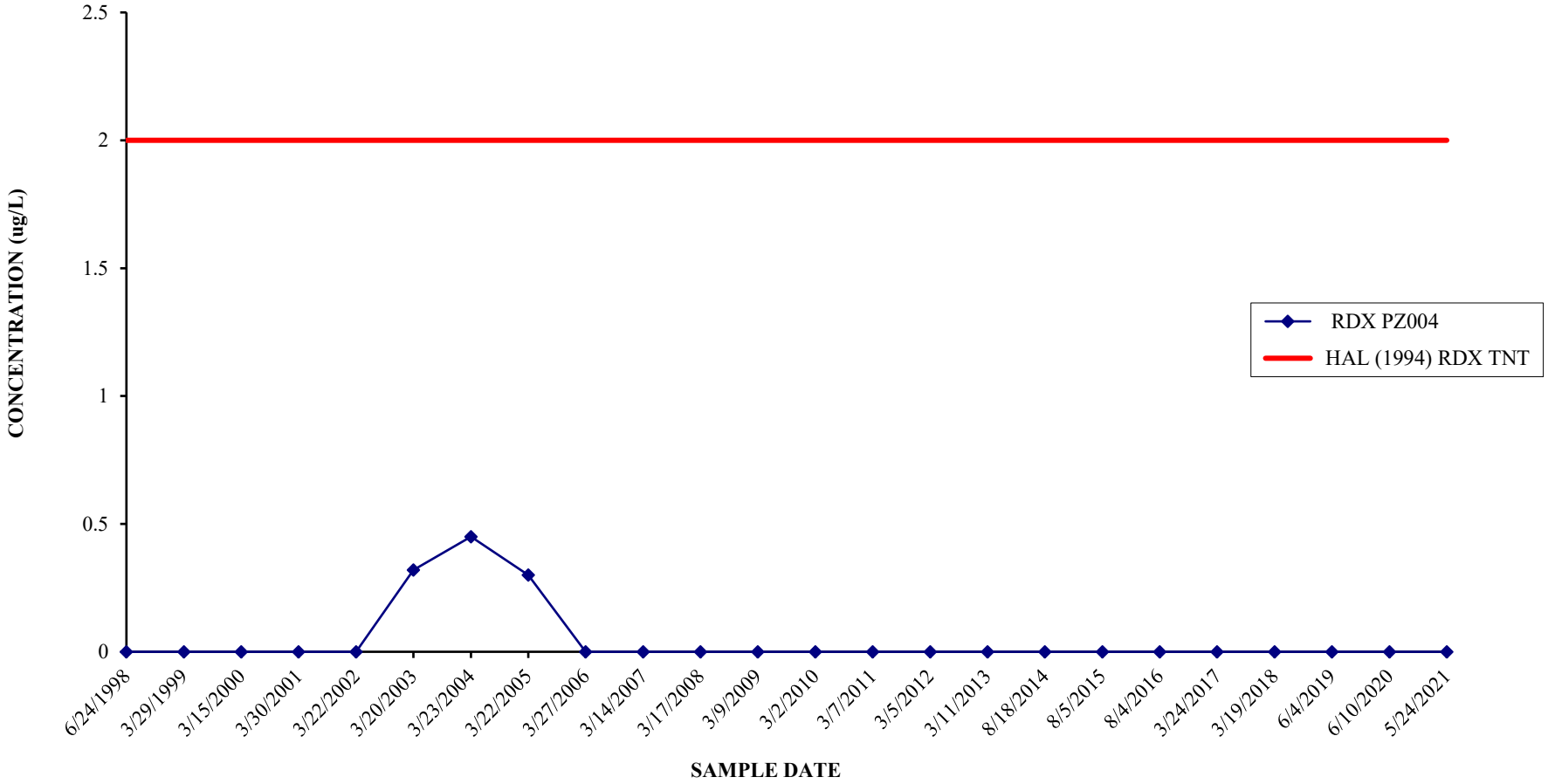
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0123 - HMX AND RDX



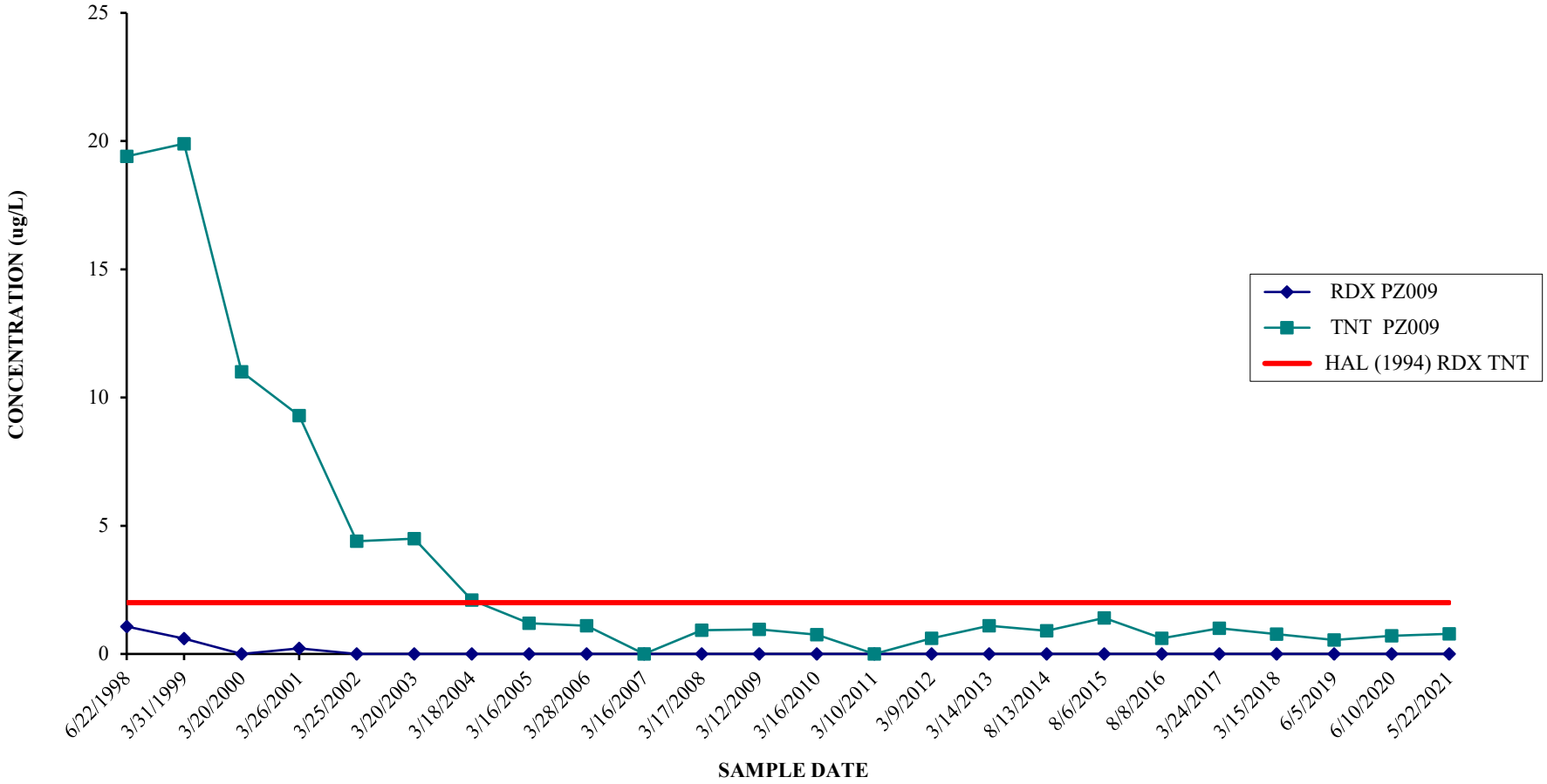
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ001 - HMX AND RDX



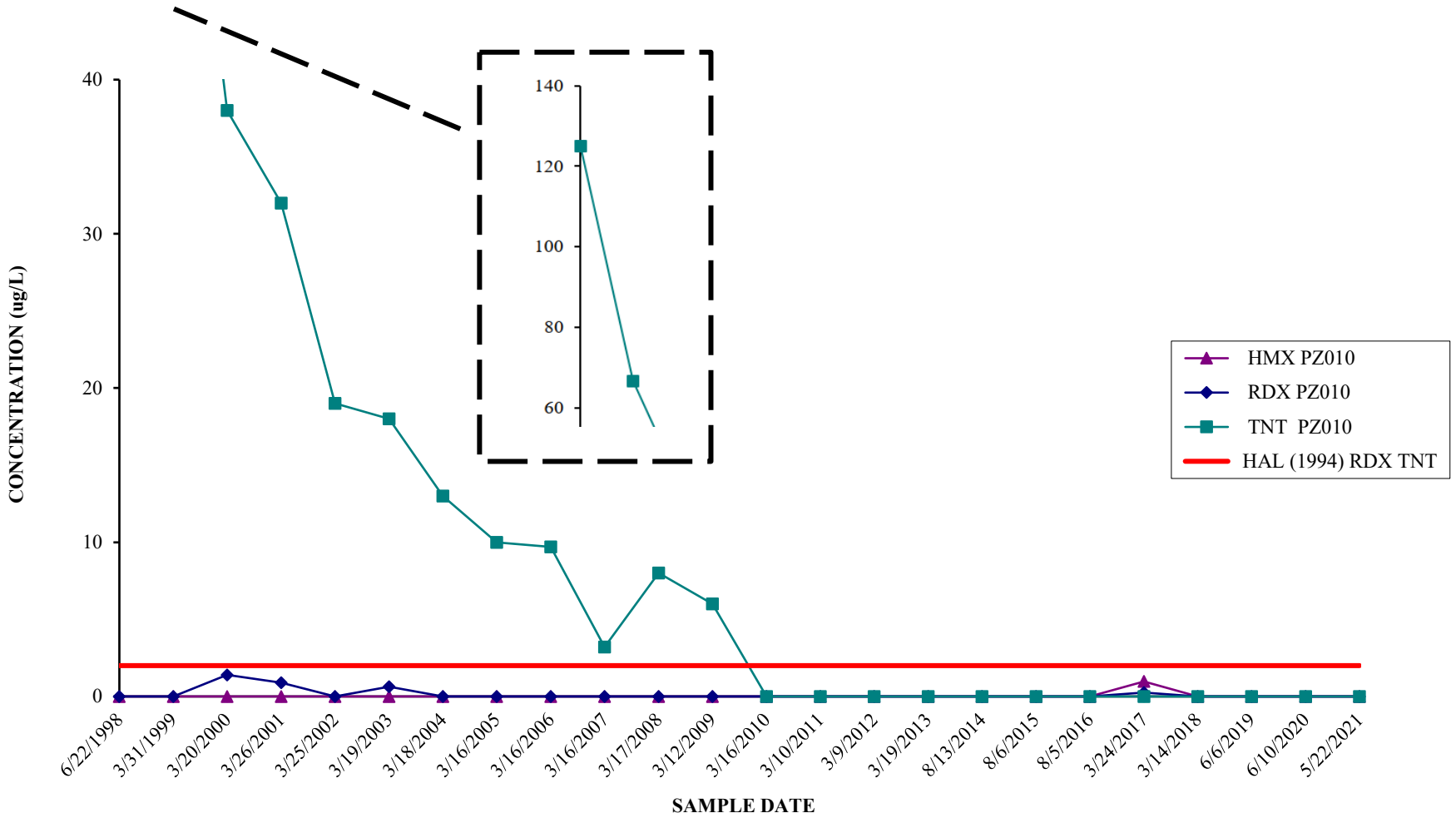
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ004 - RDX



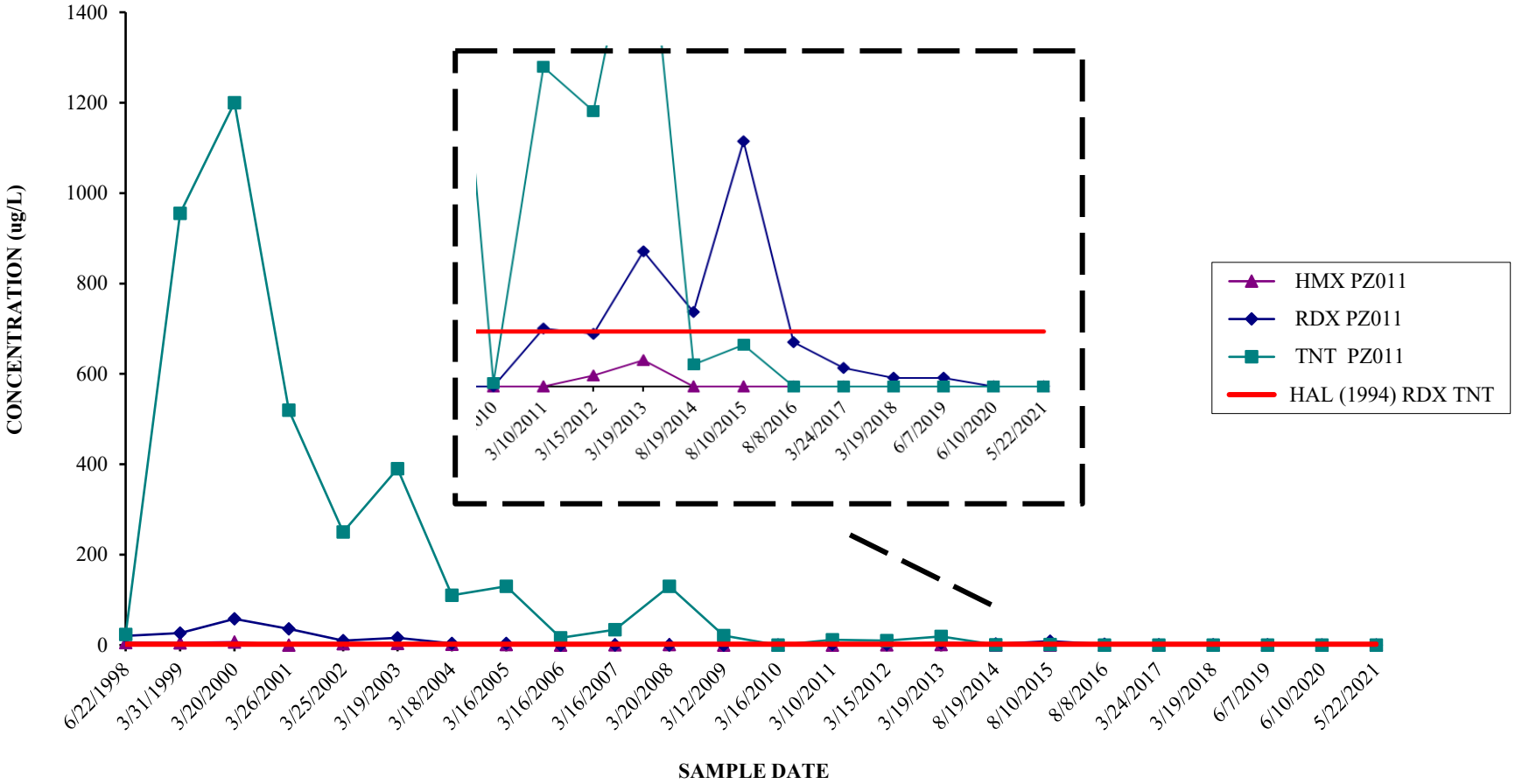
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ009 - RDX AND TNT



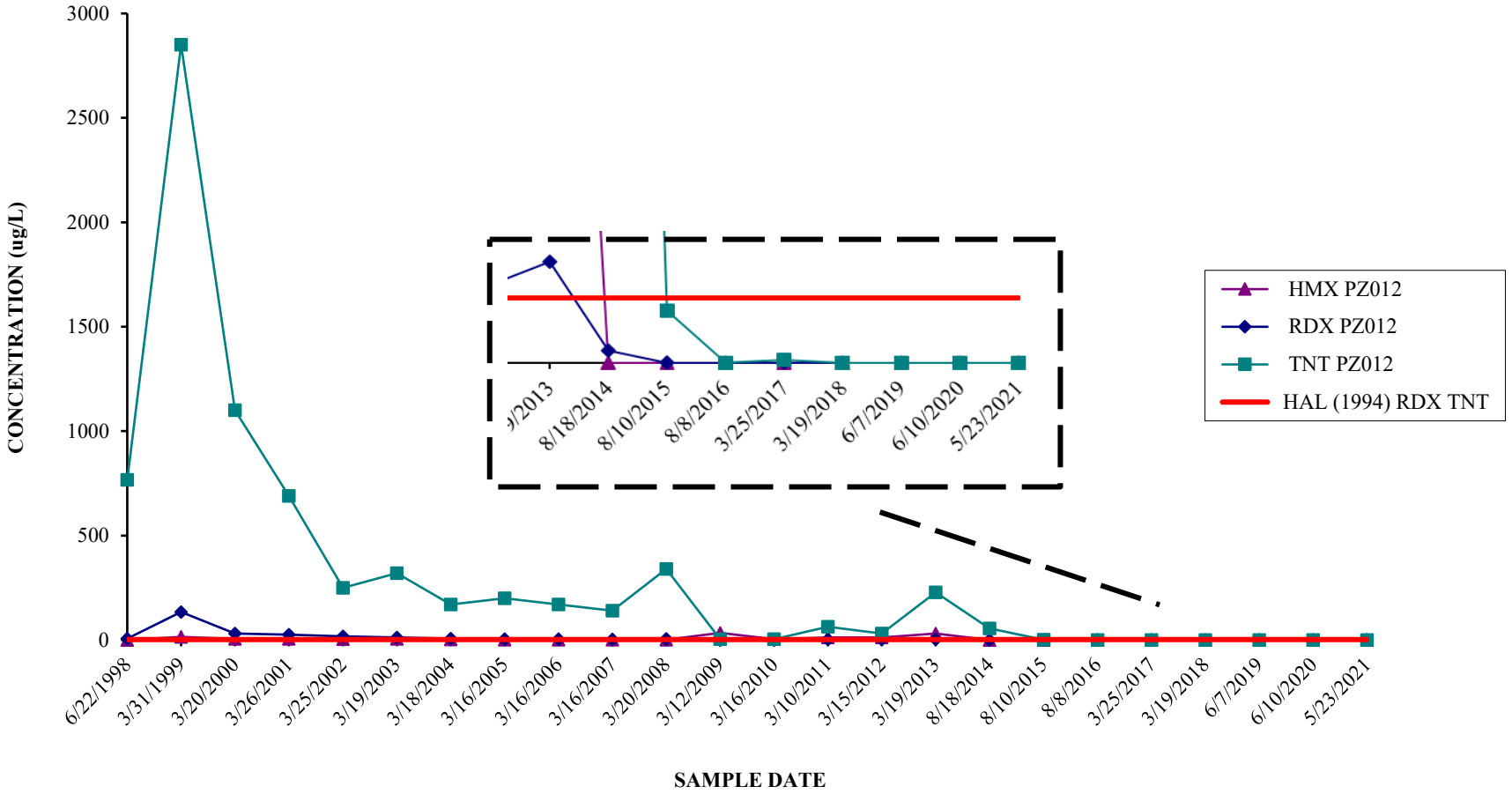
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ010 - HMX, RDX, AND TNT



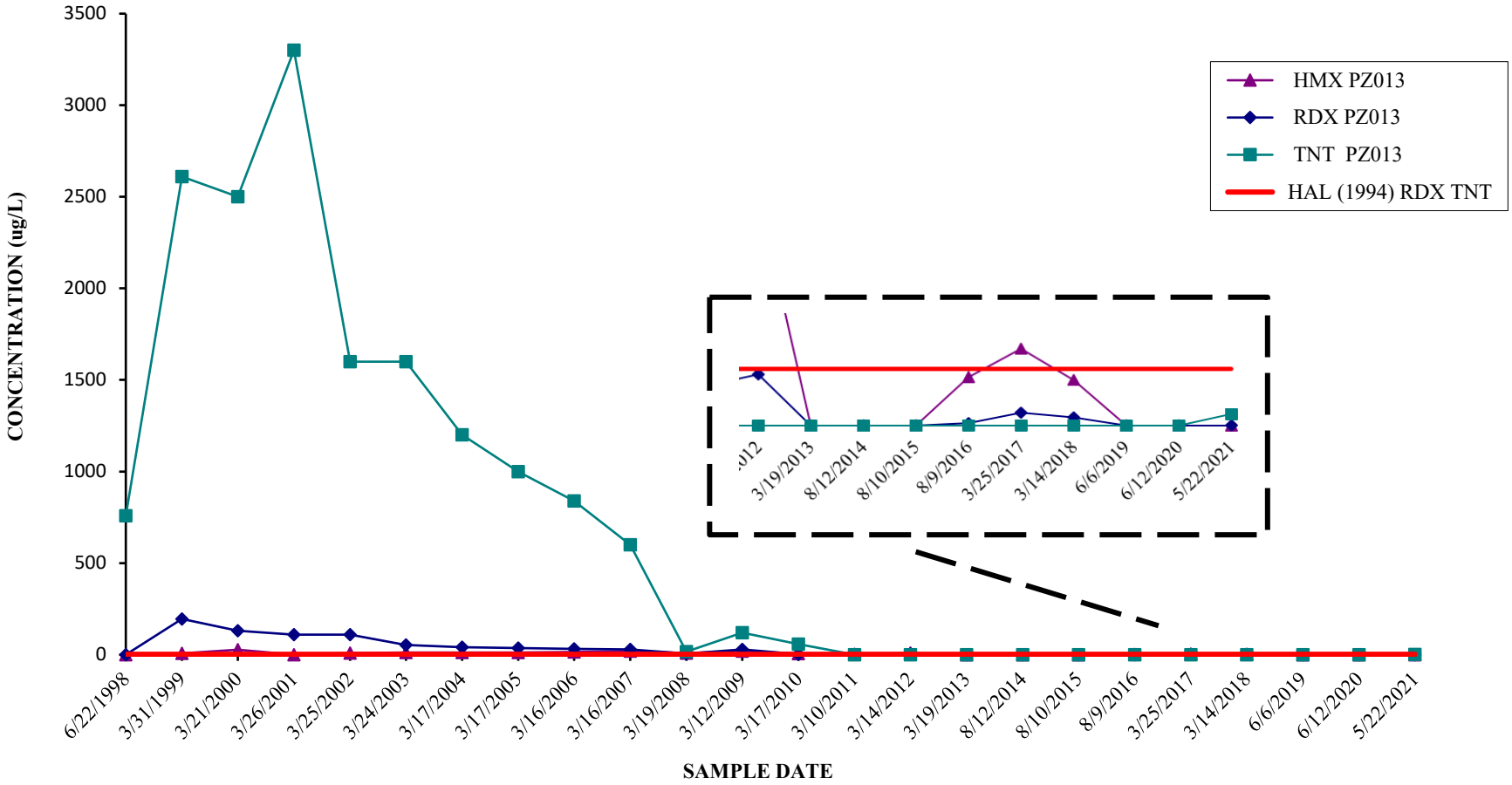
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ011 - HMX, RDX, AND TNT



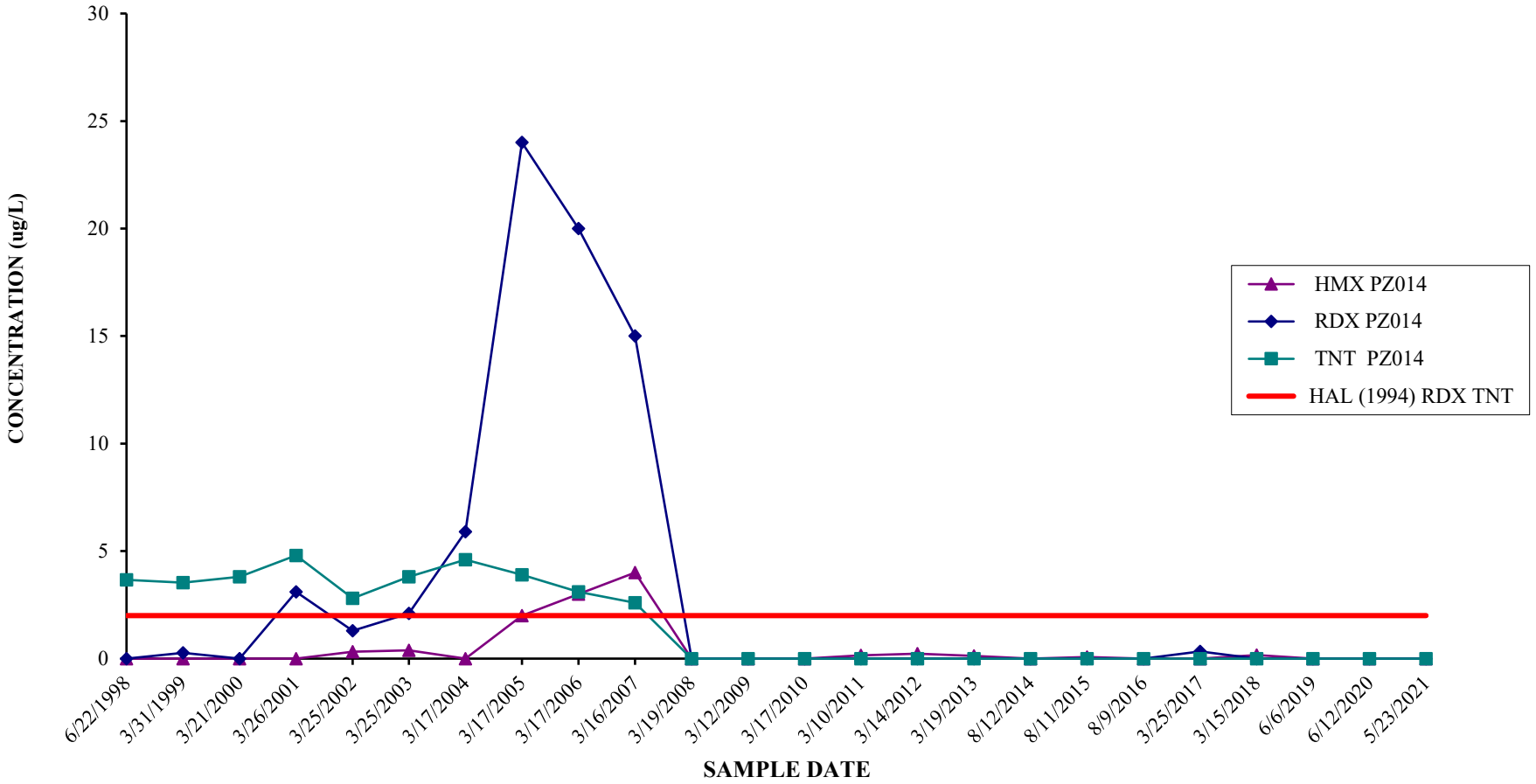
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ012 - HMX, RDX, AND TNT



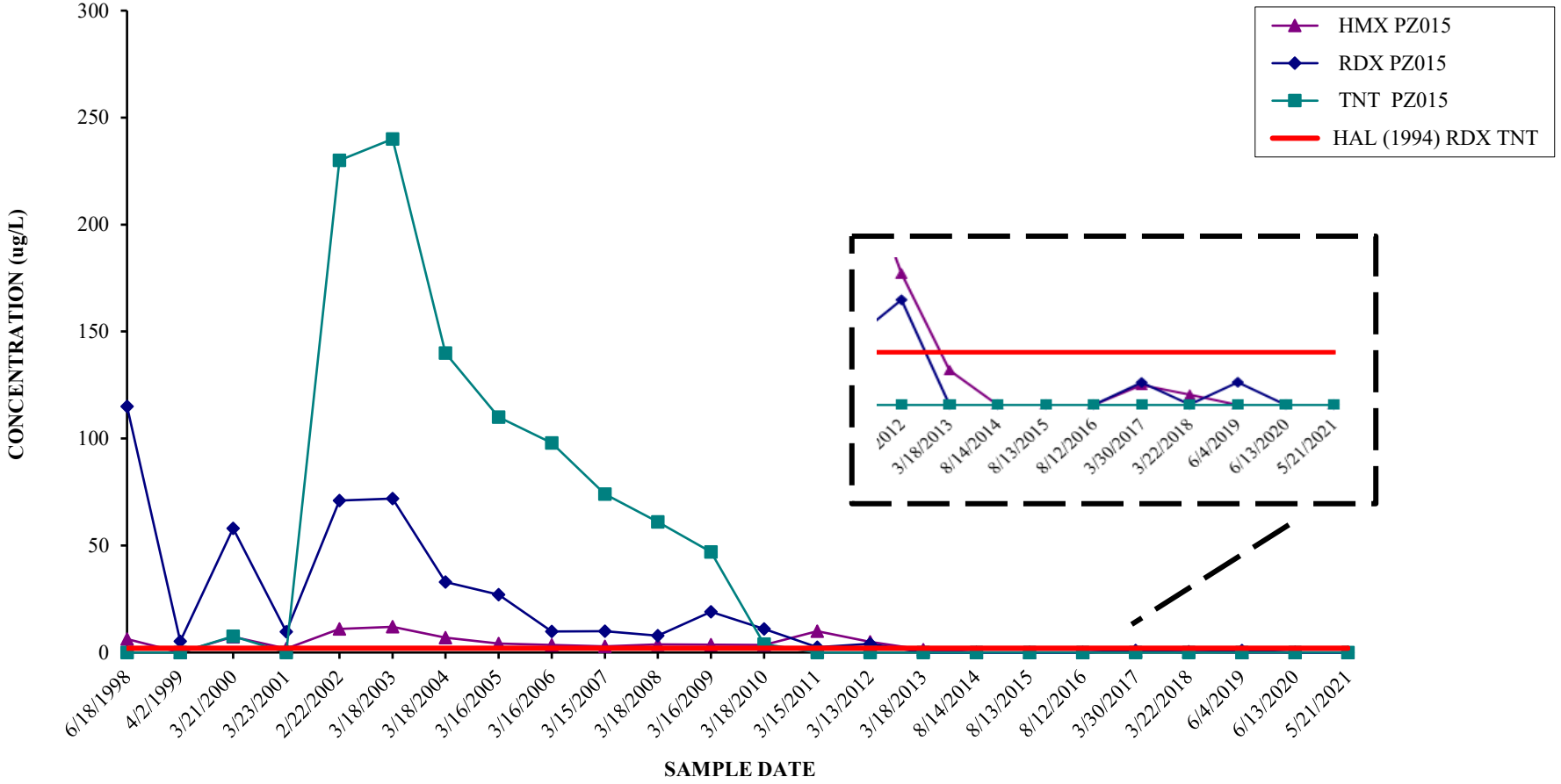
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ013 - HMX, RDX, AND TNT



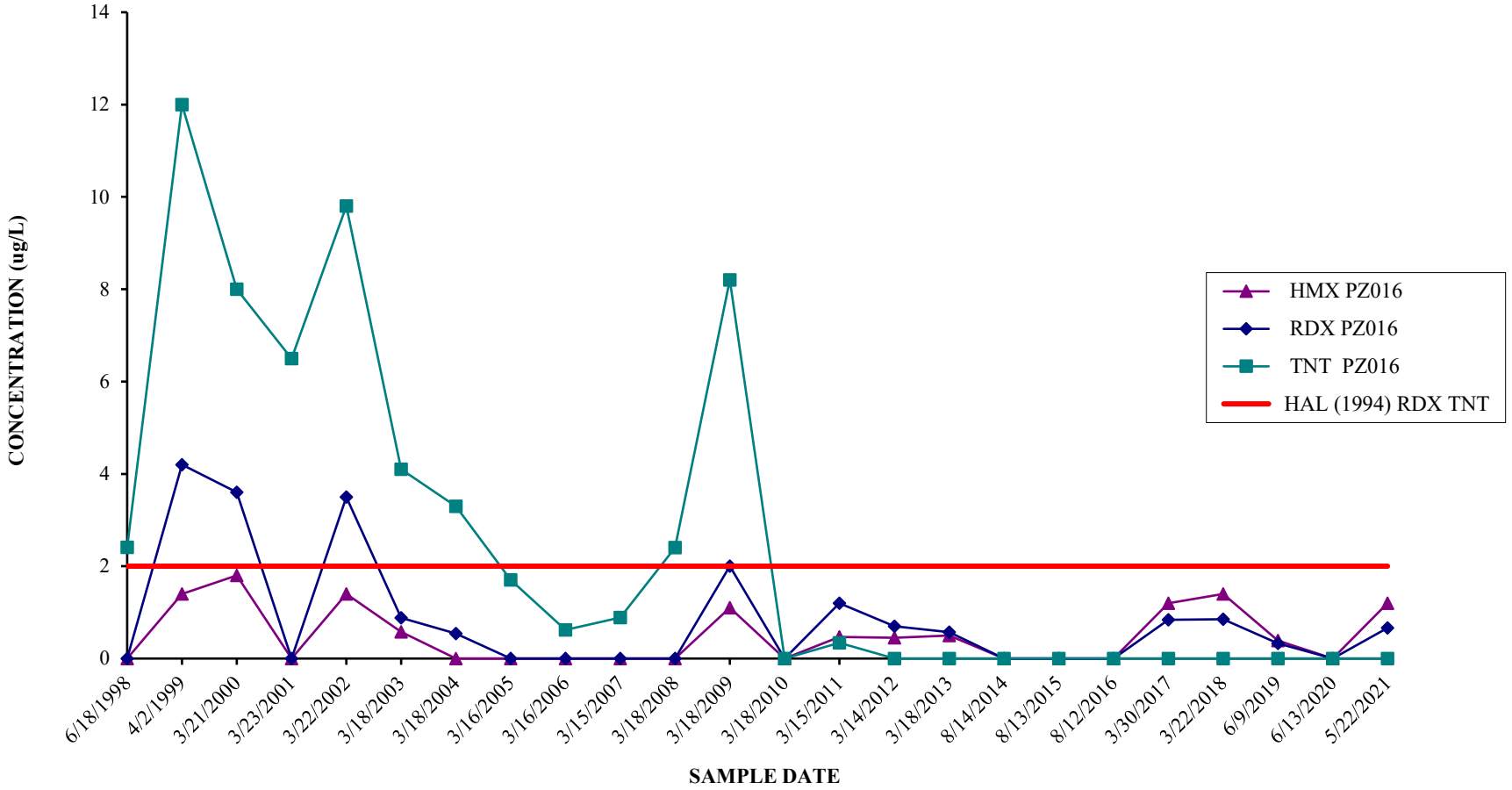
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ014 - HMX, RDX, AND TNT



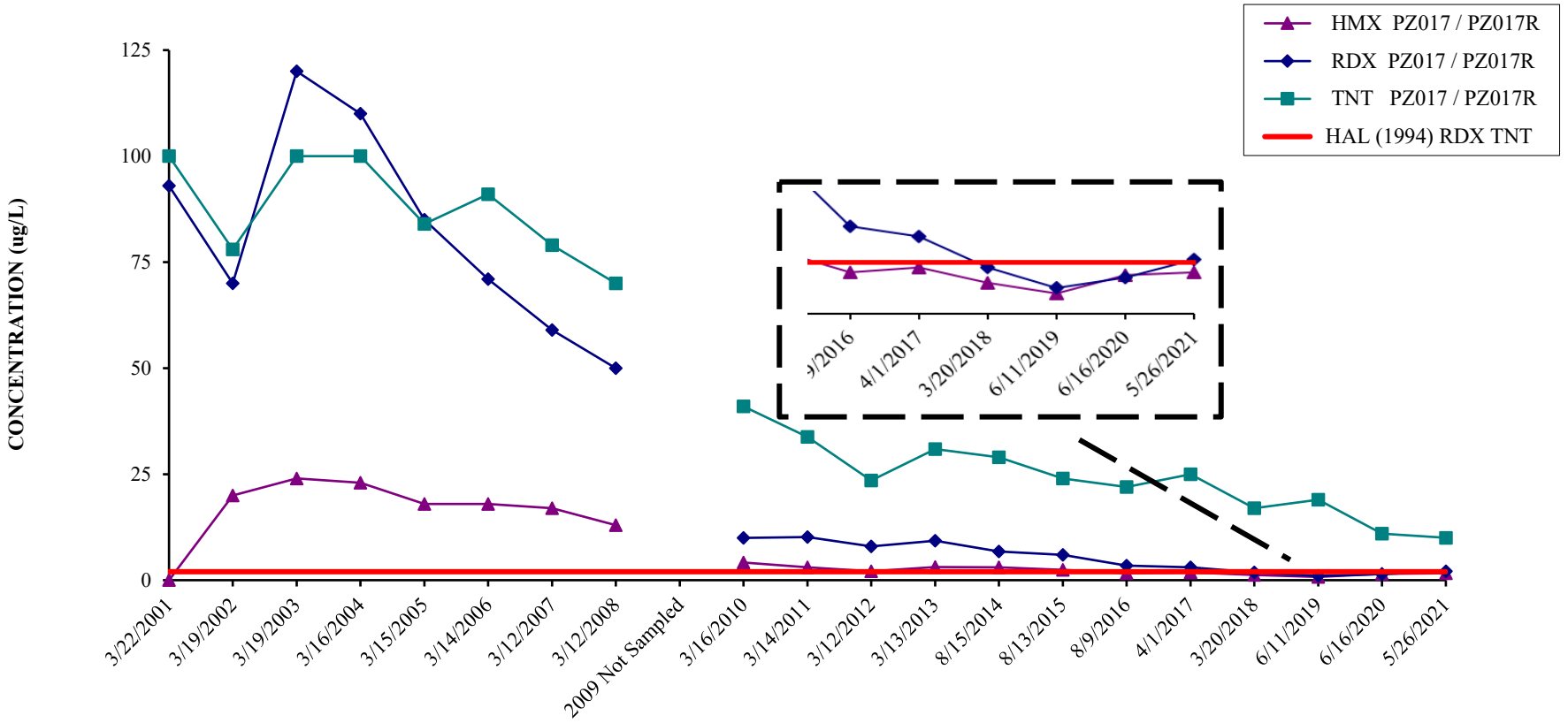
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ015 - HMX, RDX, AND TNT



CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ016 - HMX, RDX, AND TNT

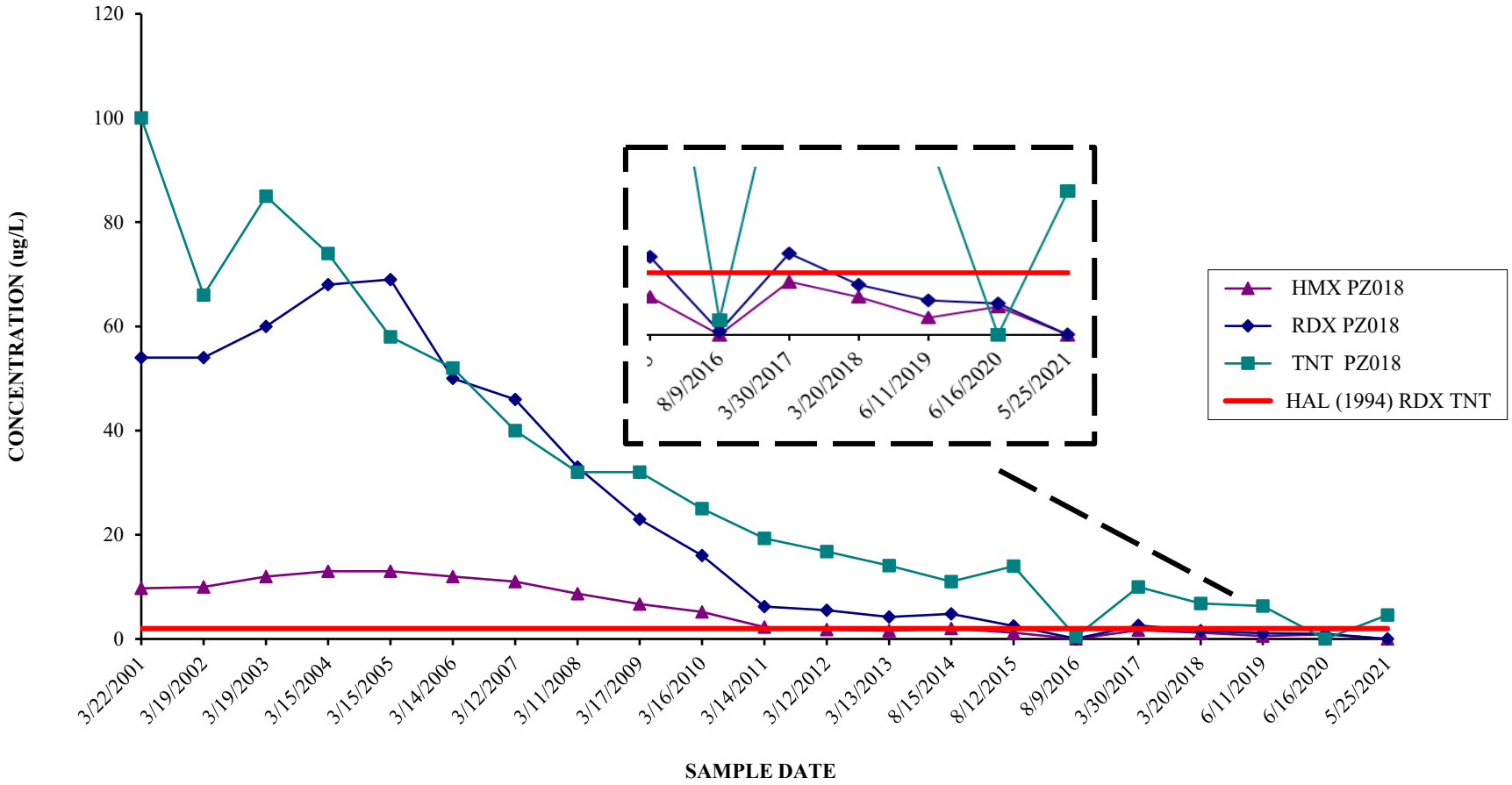


CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ017/PZ017R* - HMX, RDX, AND TNT

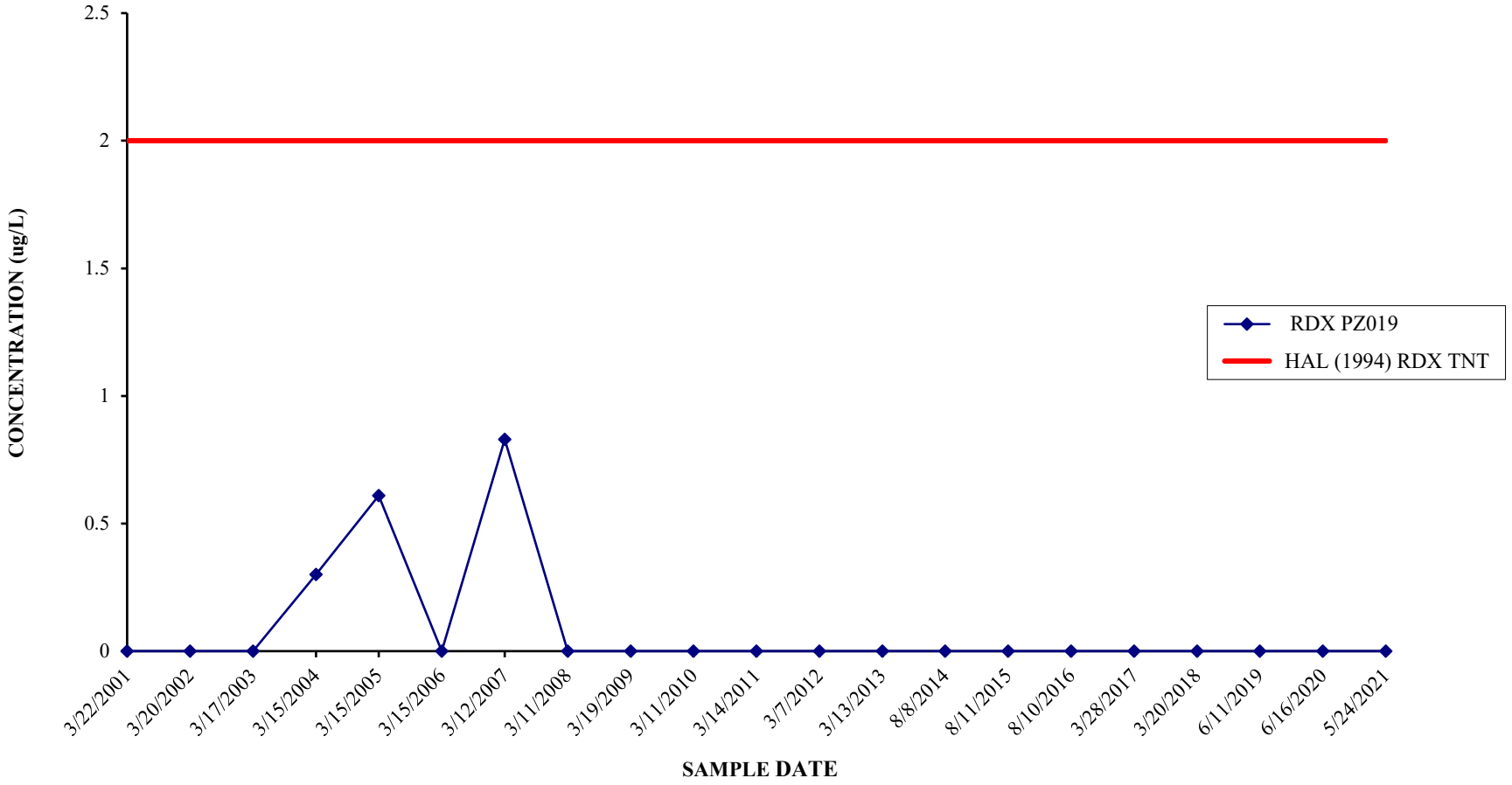


*** Piezometer PZ017 was abandonded and replaced by Piezometer PZ017R in November 2009.**

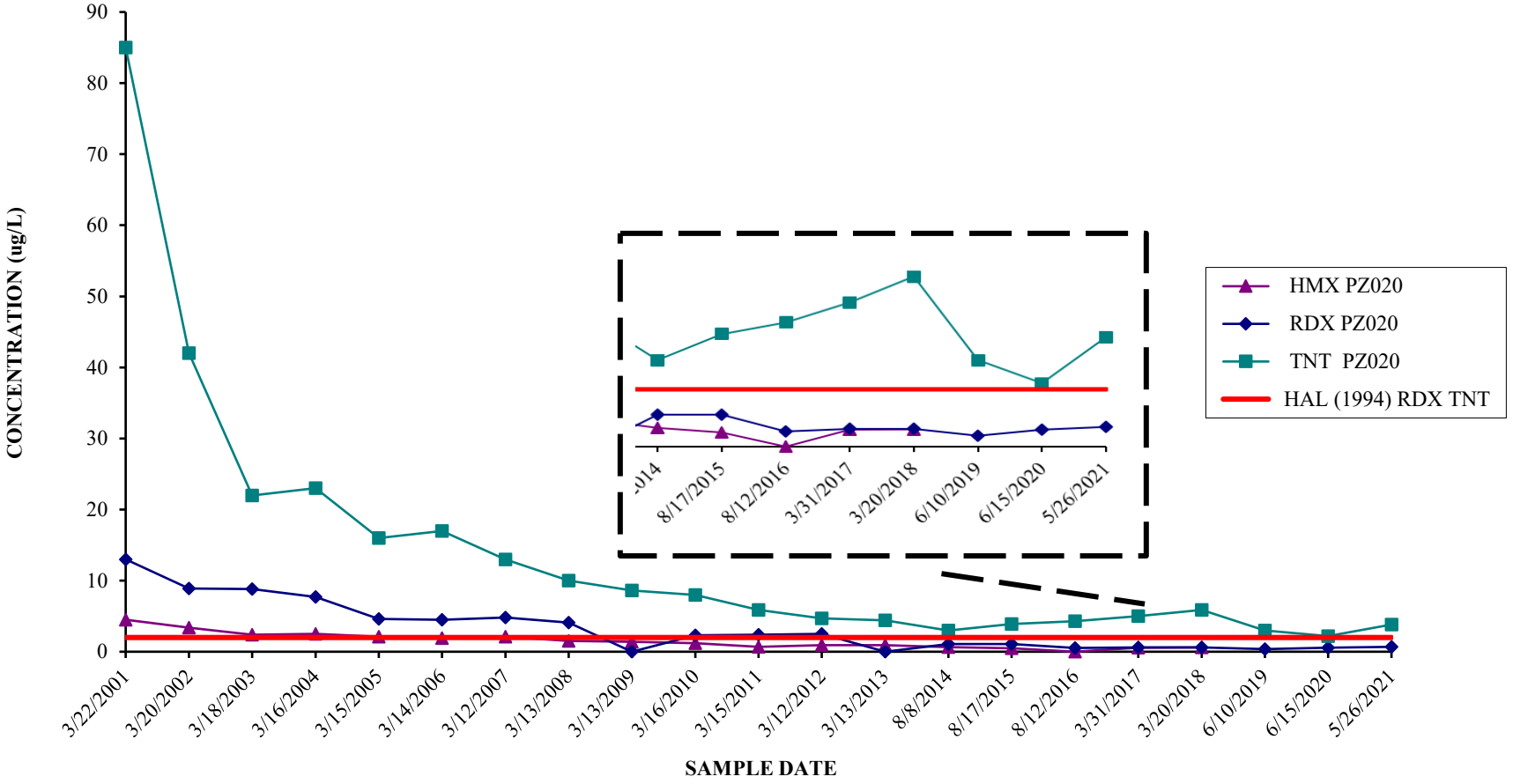
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ018 - HMX, RDX, AND TNT



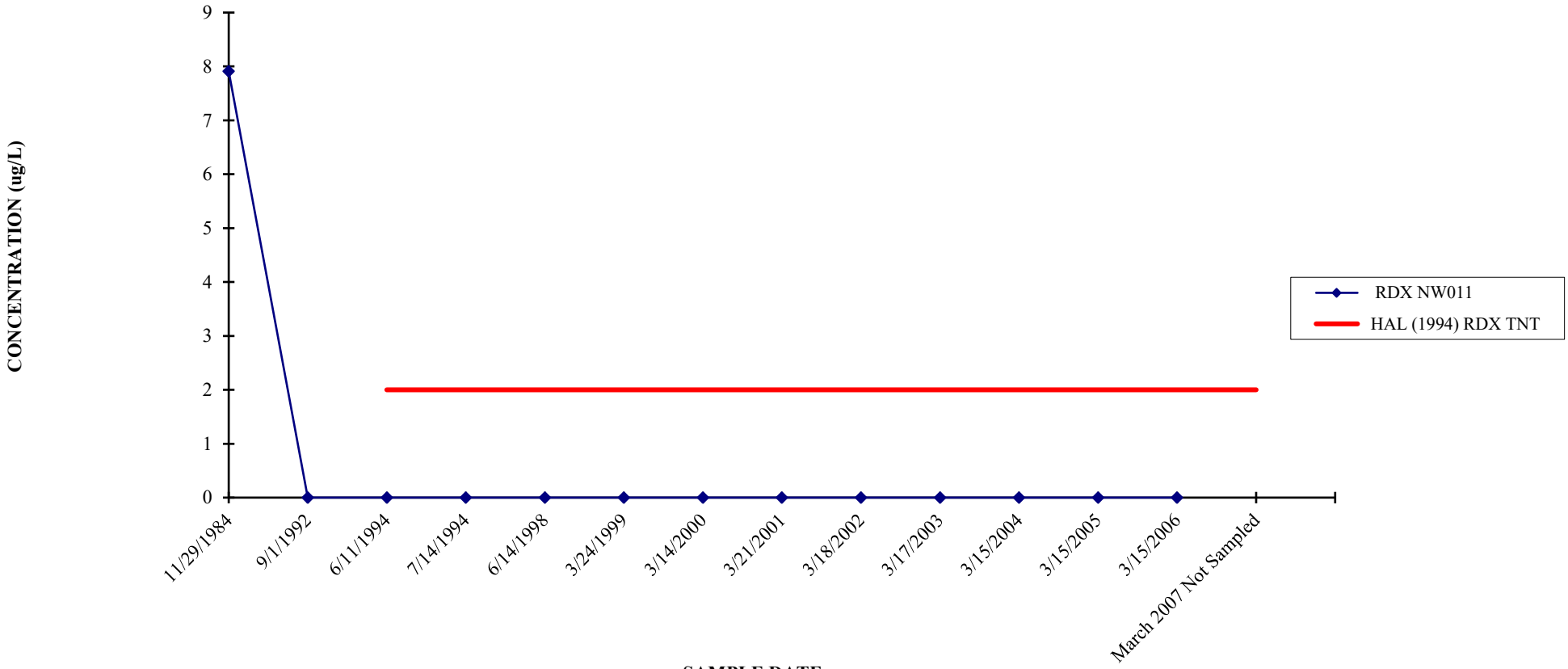
CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ019 - RDX



CORNHUSKER ARMY AMMUNITION PLANT
PIEZOMETER PZ020 - HMX, RDX, AND TNT

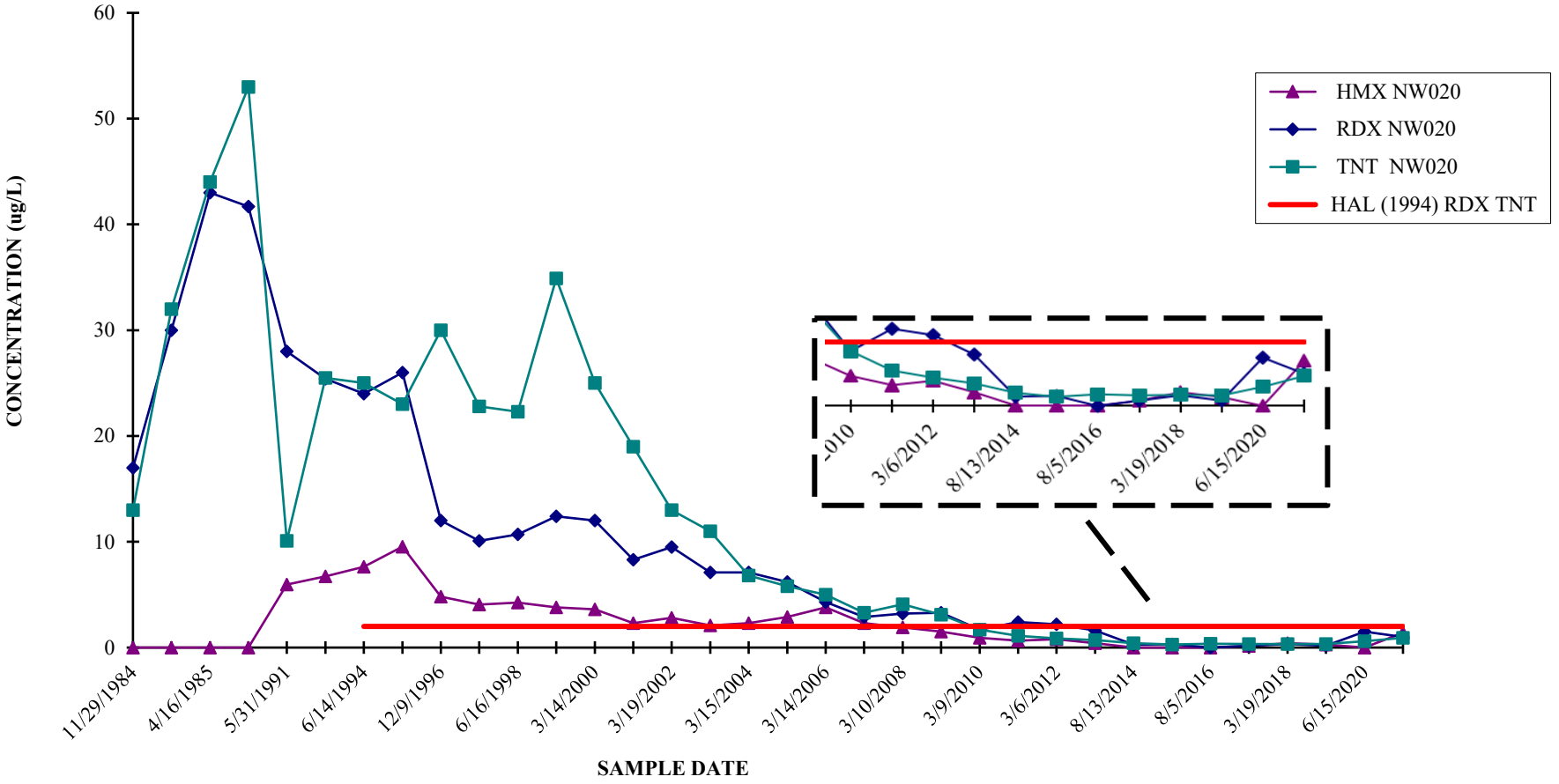


CORNHUSKER ARMY AMMUNITION PLANT
WELL NW011 - RDX

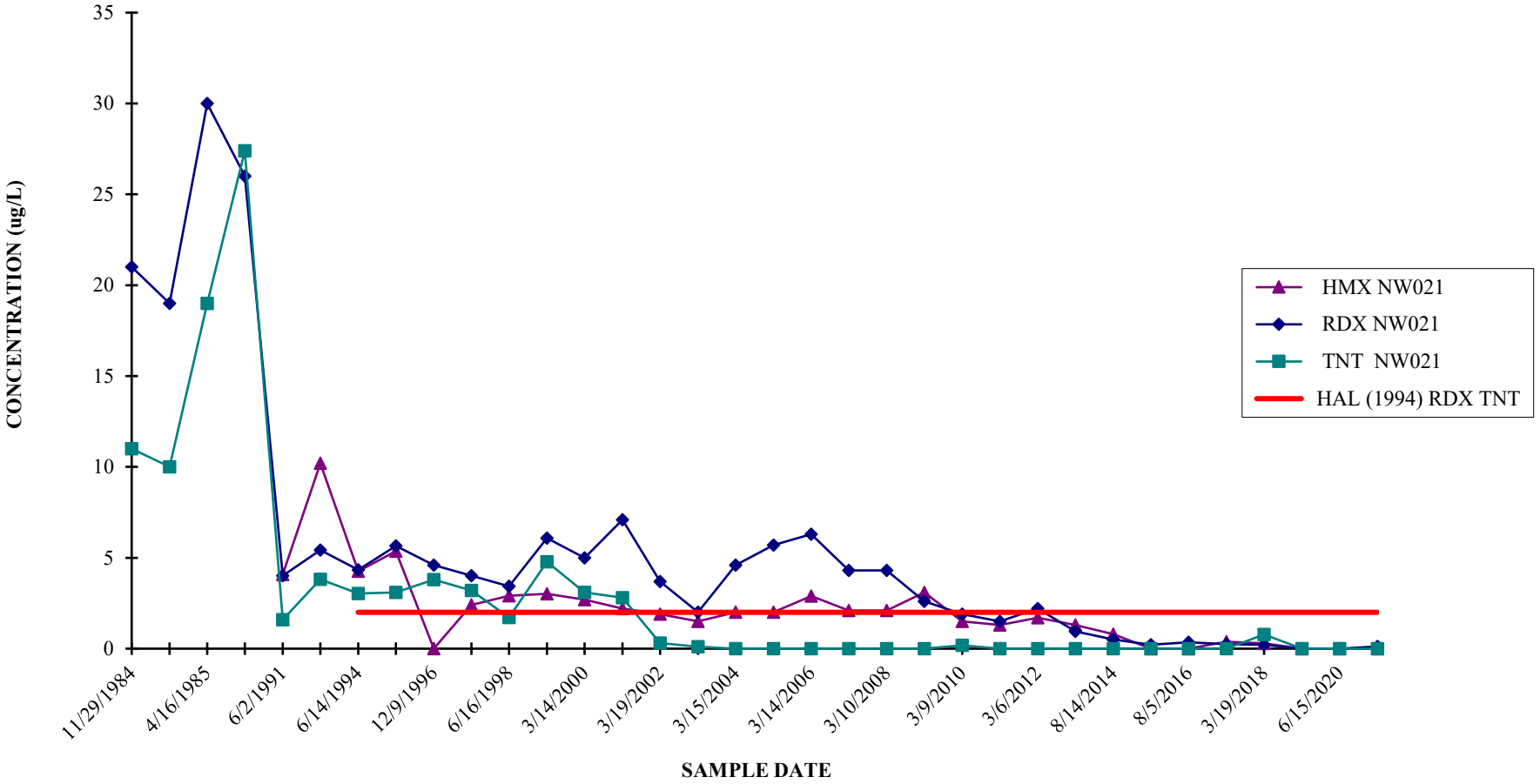


NOTE: Well NW011 was abandoned in 2008.

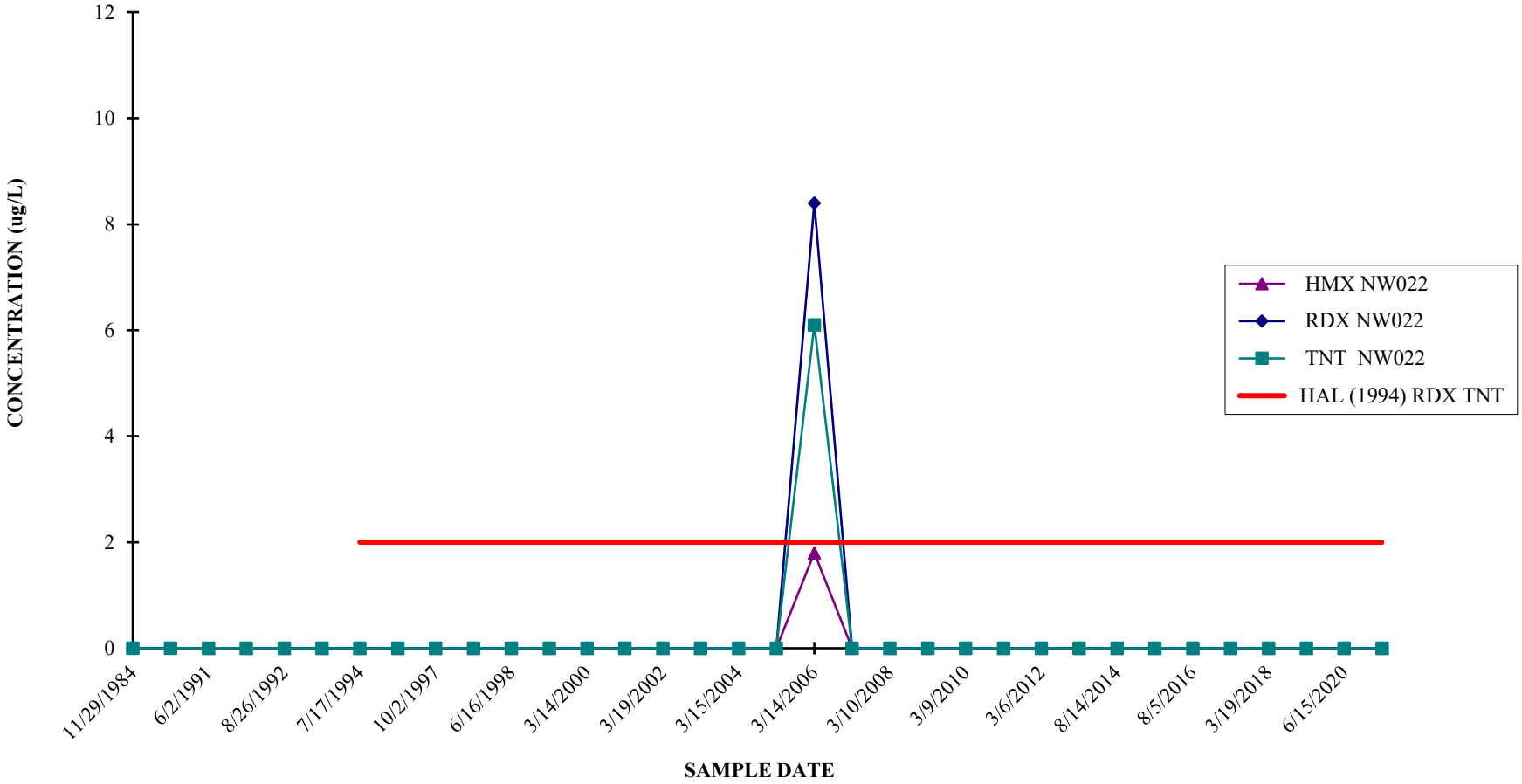
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW020 - HMX, RDX, AND TNT



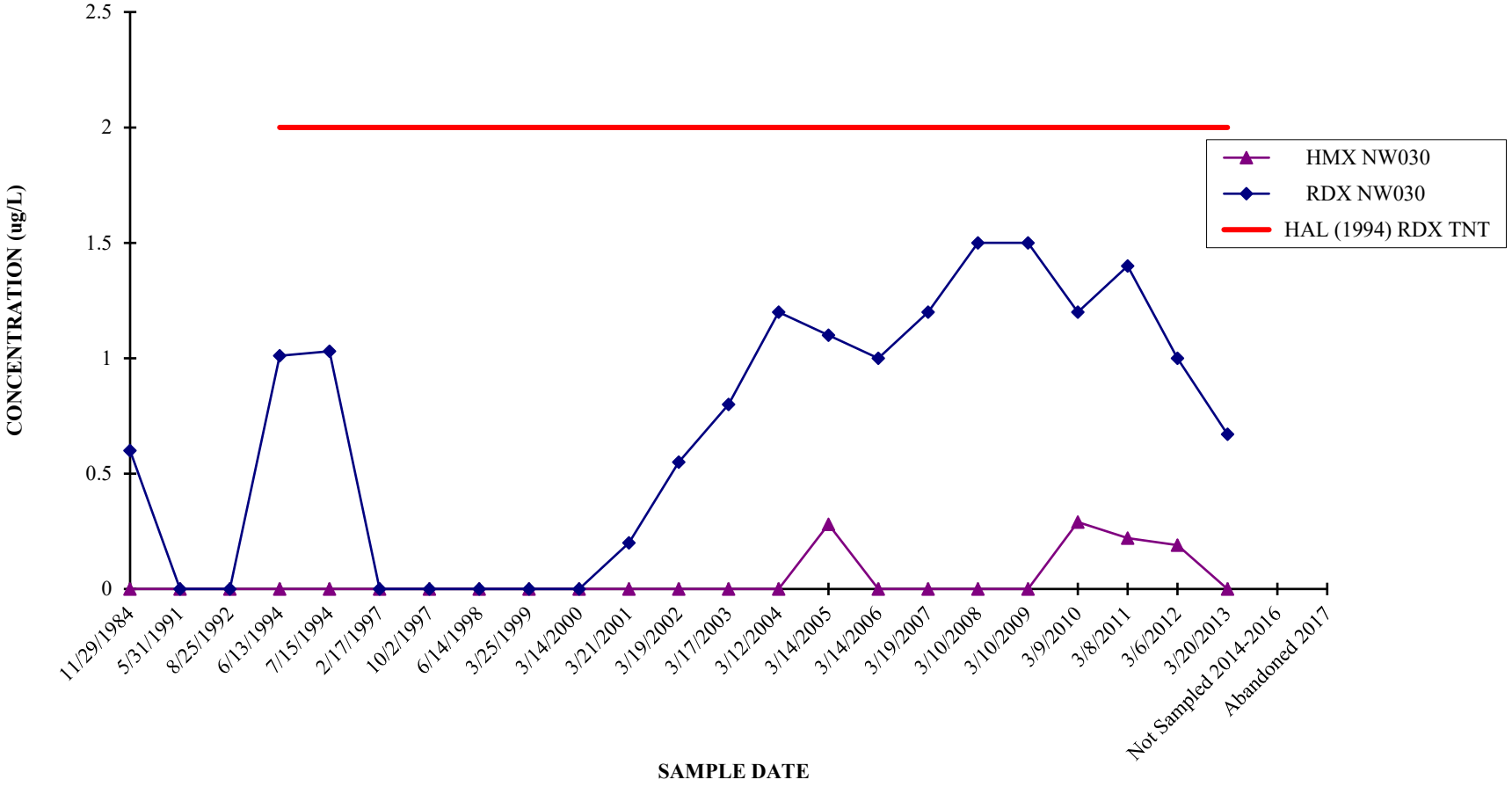
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW021 - HMX, RDX, AND TNT



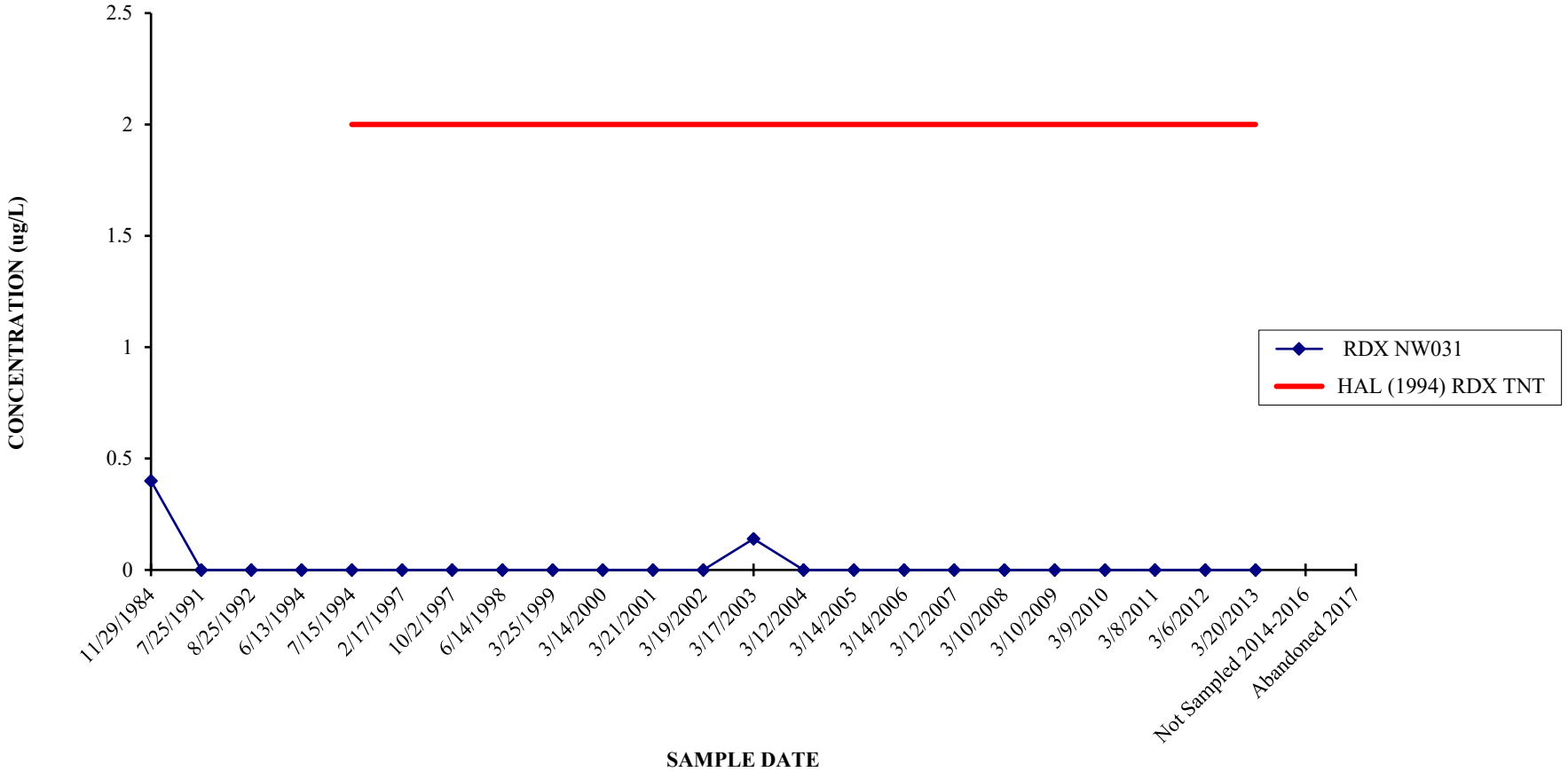
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW022 - HMX, RDX, AND TNT



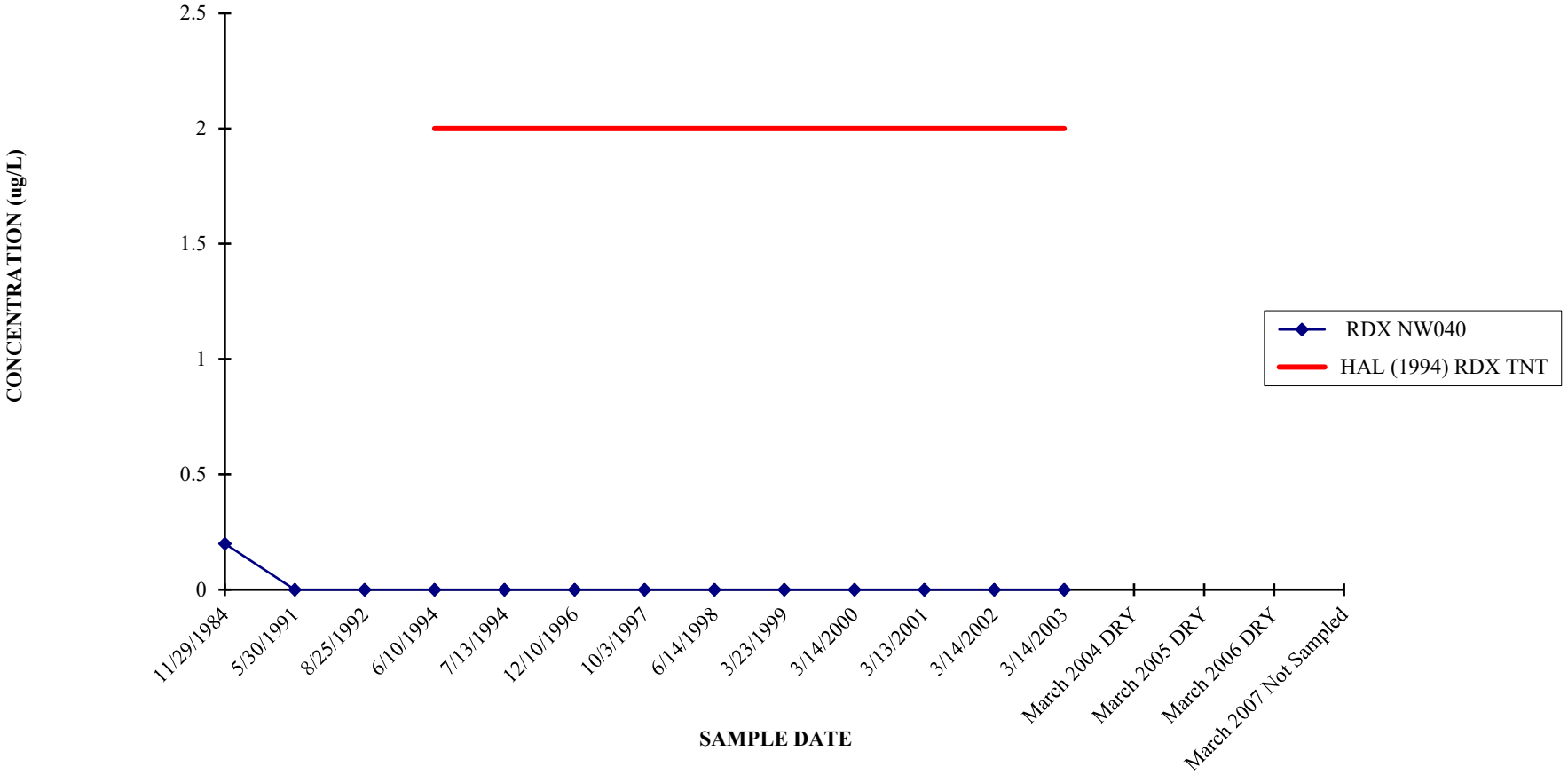
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW030 - HMX AND RDX



CORNHUSKER ARMY AMMUNITION PLANT
WELL NW031 - RDX

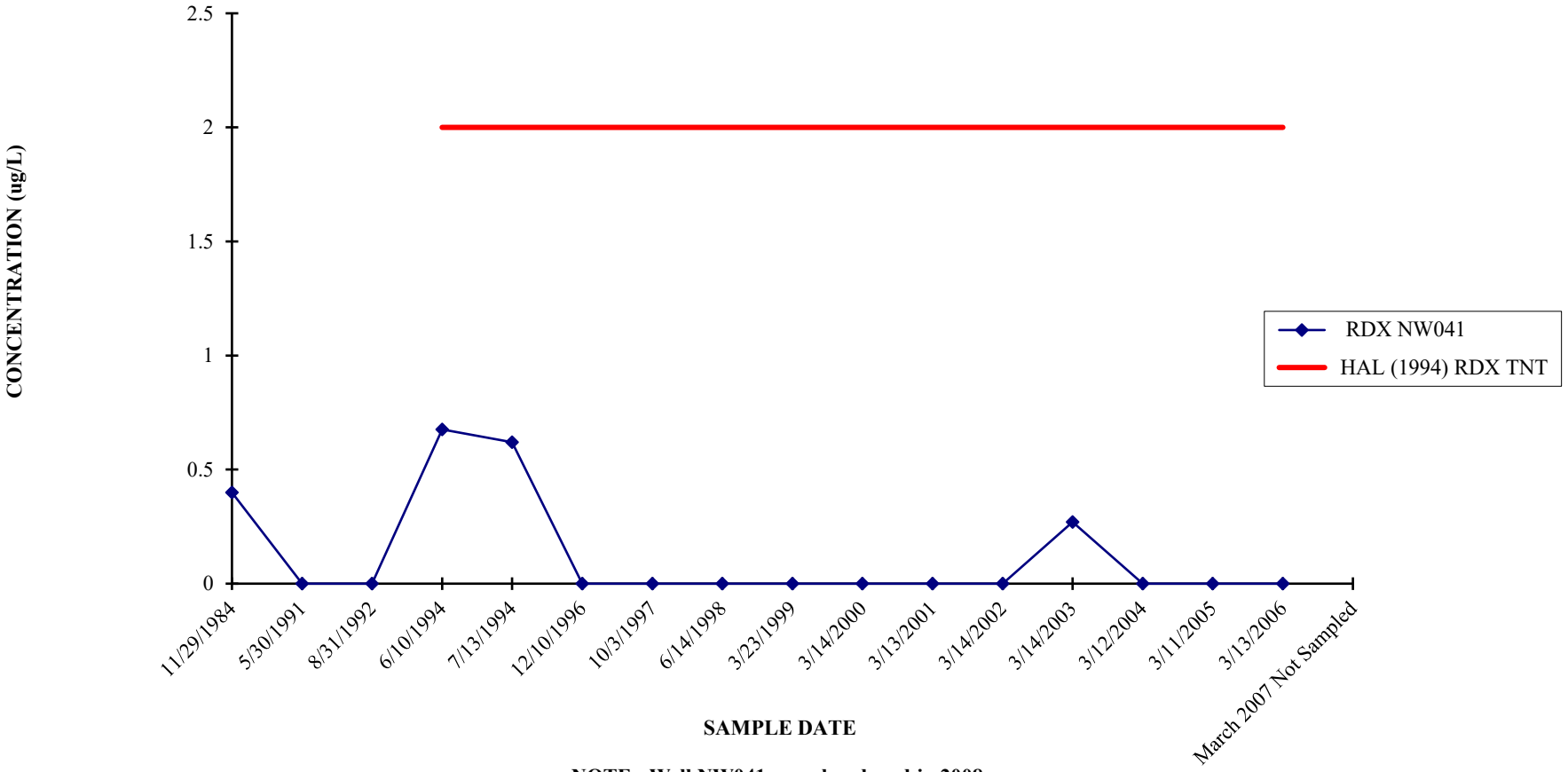


CORNHUSKER ARMY AMMUNITION PLANT
WELL NW040 - RDX



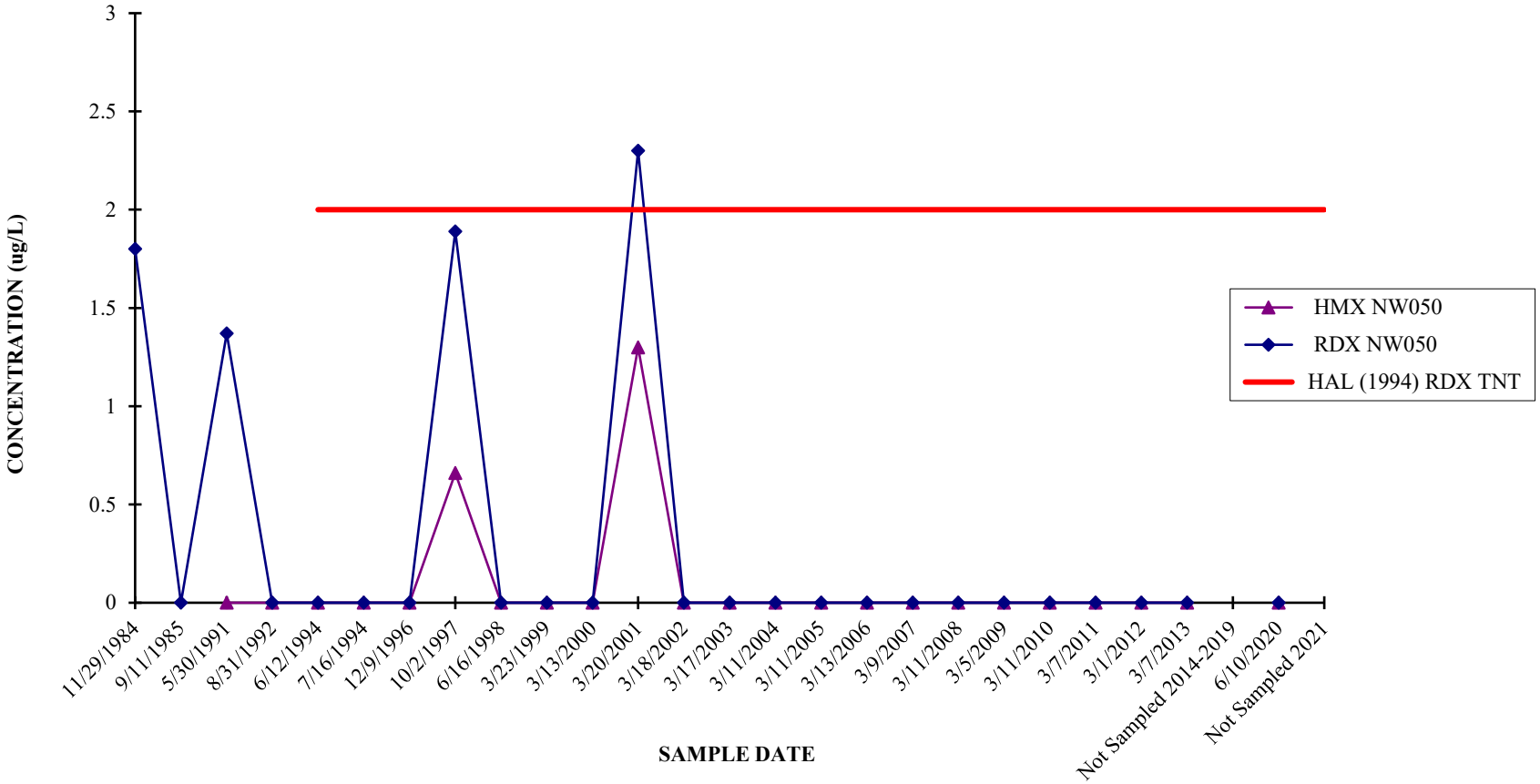
NOTE: Well NW040 was abandoned in 2008.

CORNHUSKER ARMY AMMUNITION PLANT
WELL NW041 - RDX

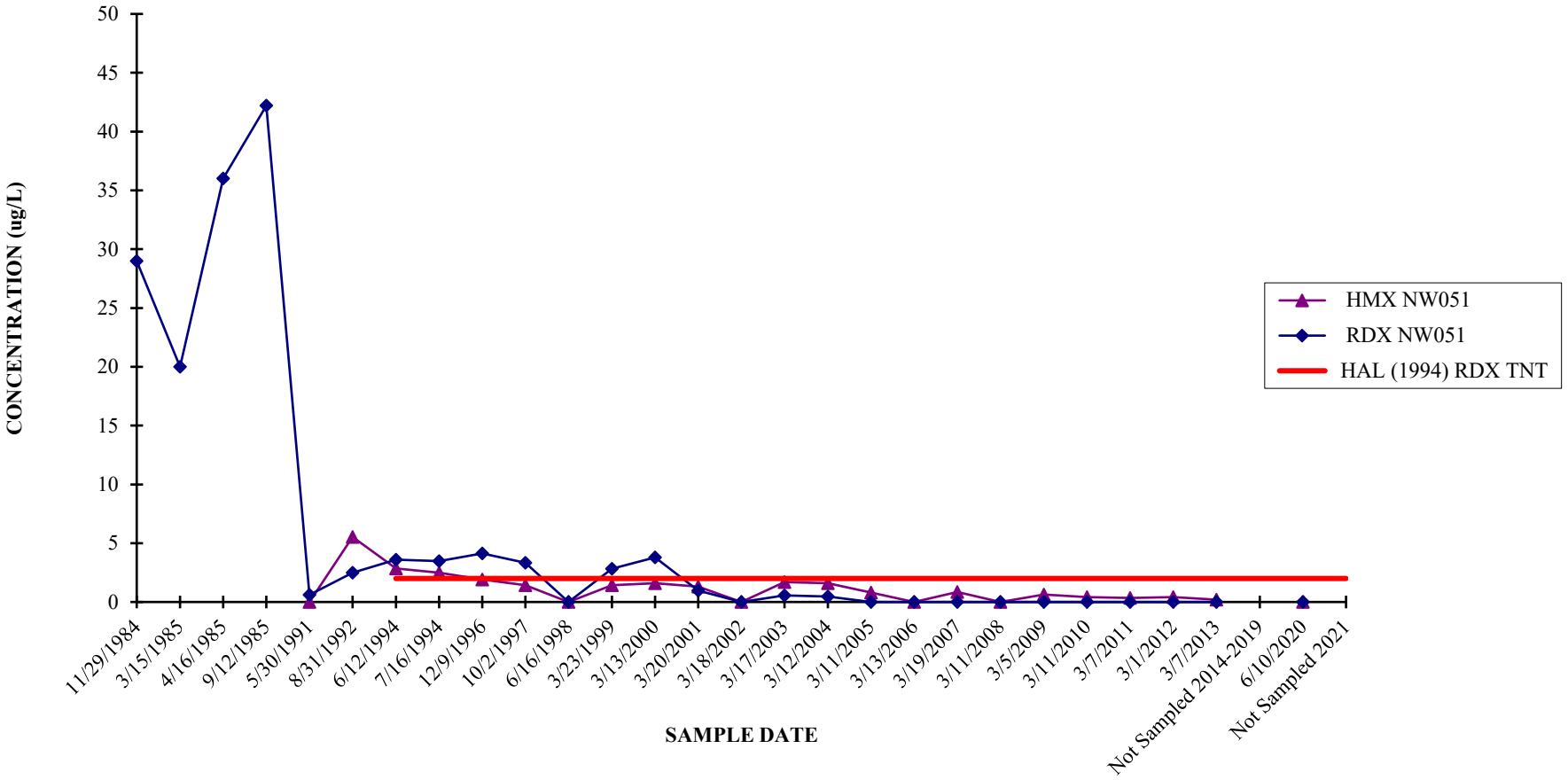


NOTE: Well NW041 was abandoned in 2008.

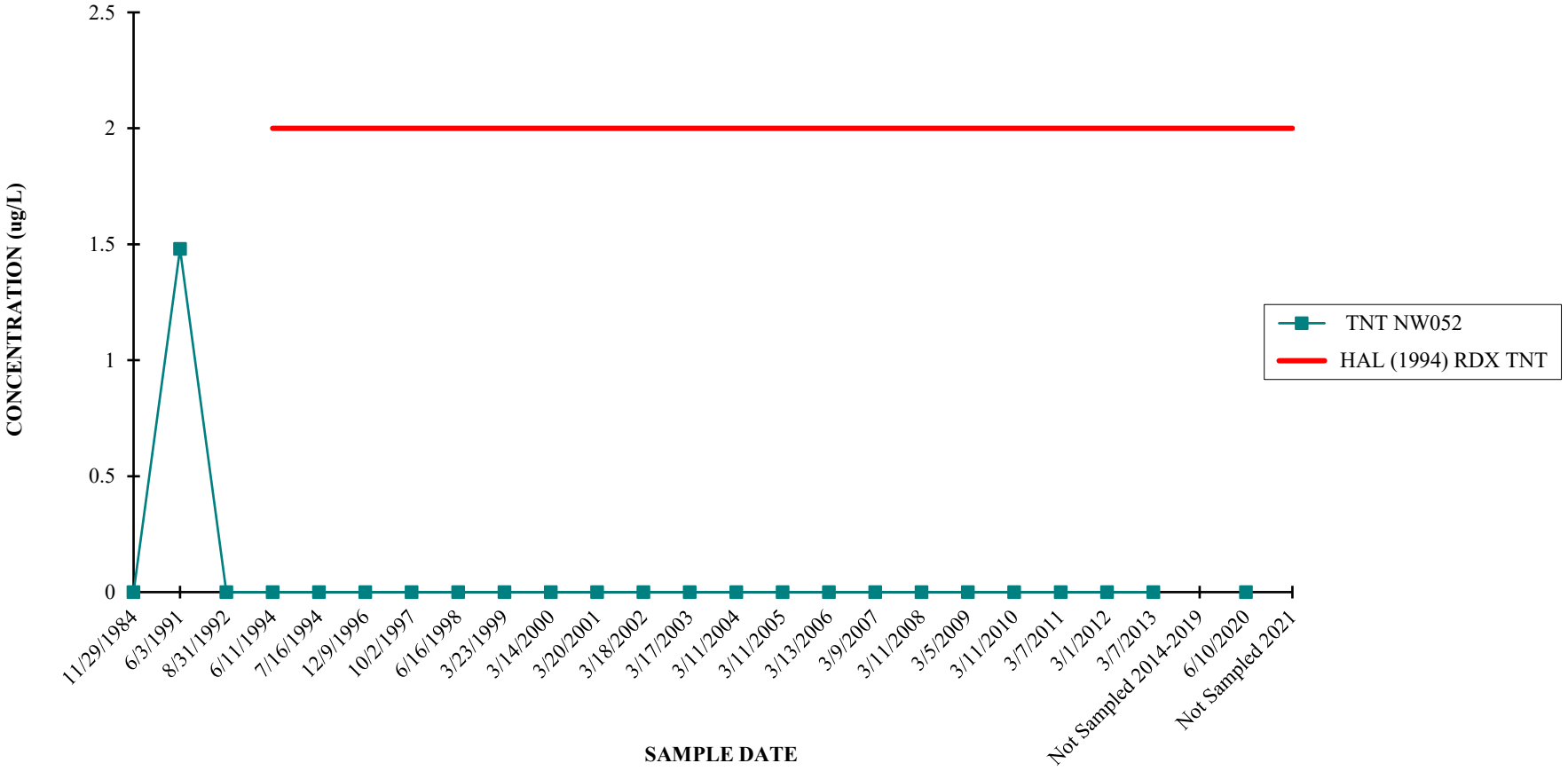
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW050 - HMX AND RDX



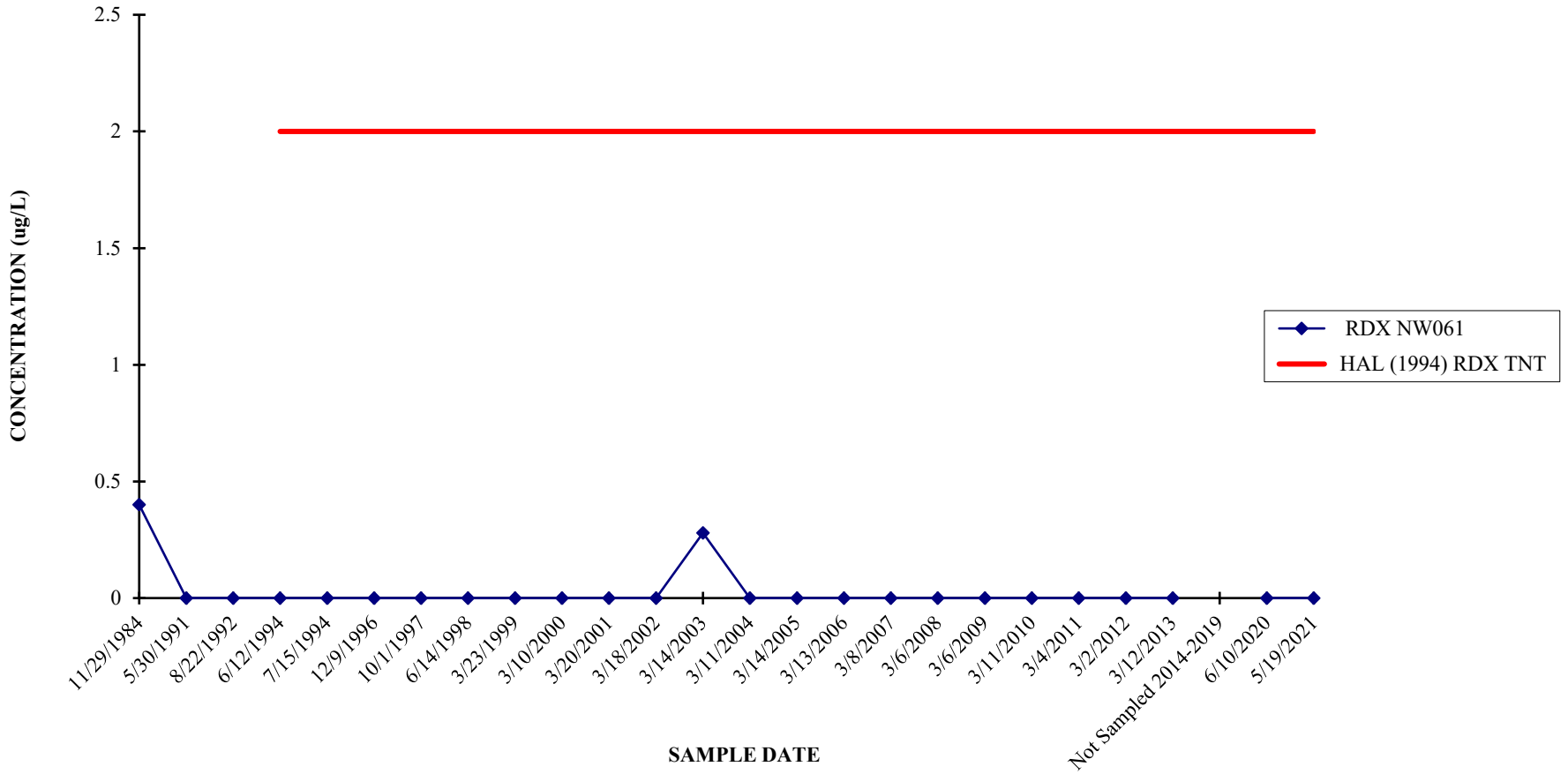
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW051 - HMX AND RDX



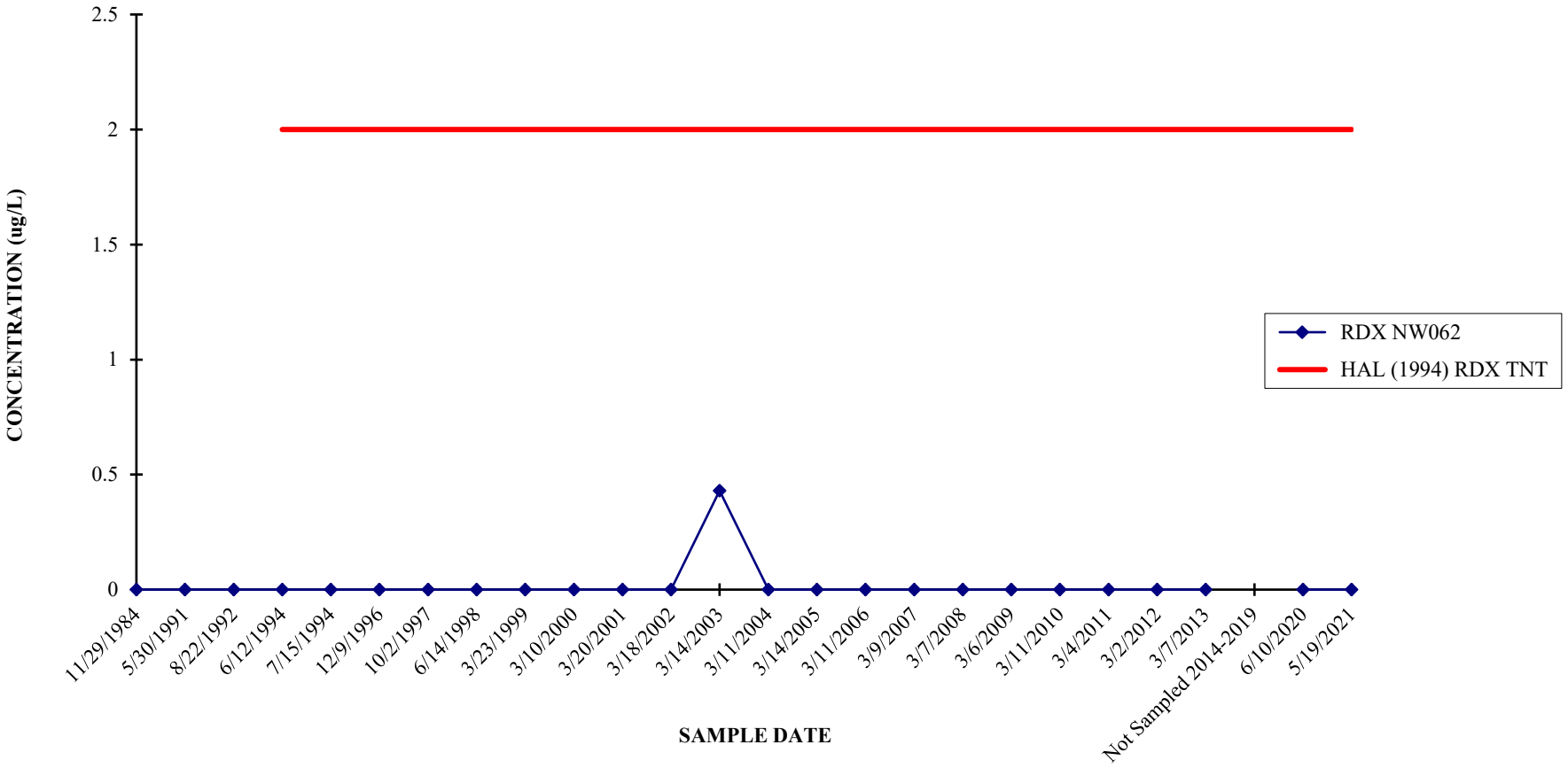
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW052 - TNT



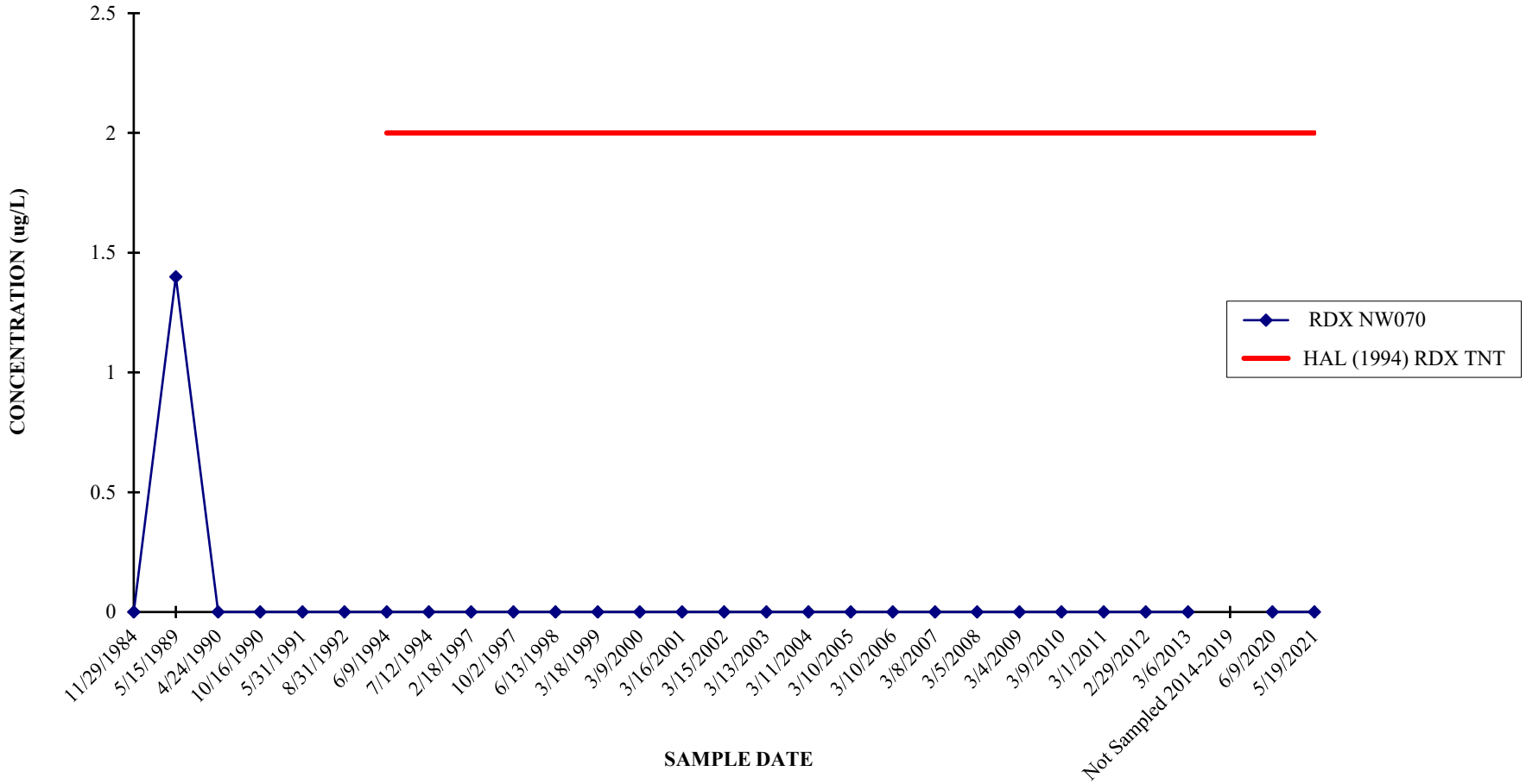
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW061 - RDX



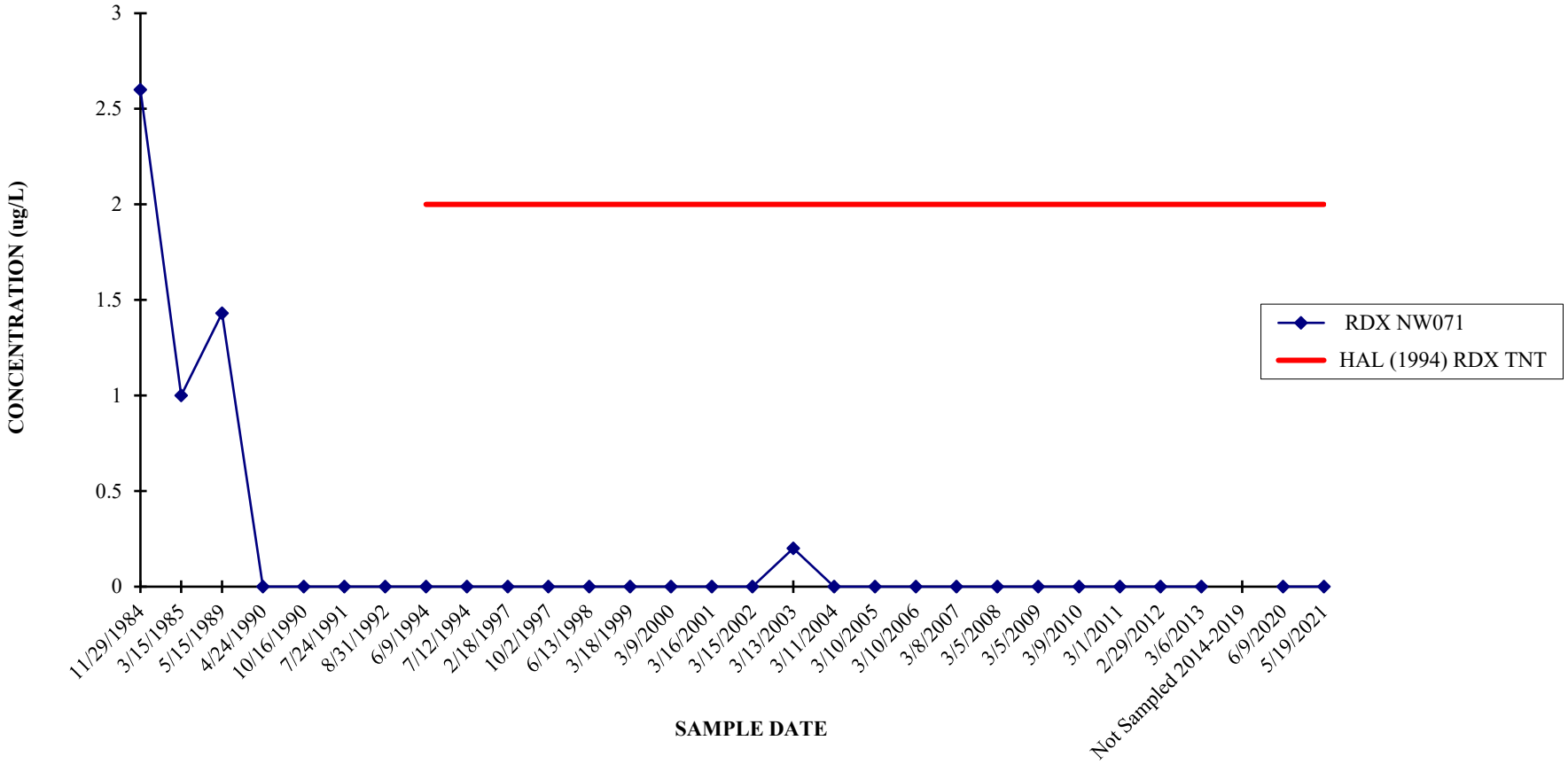
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW062 - RDX



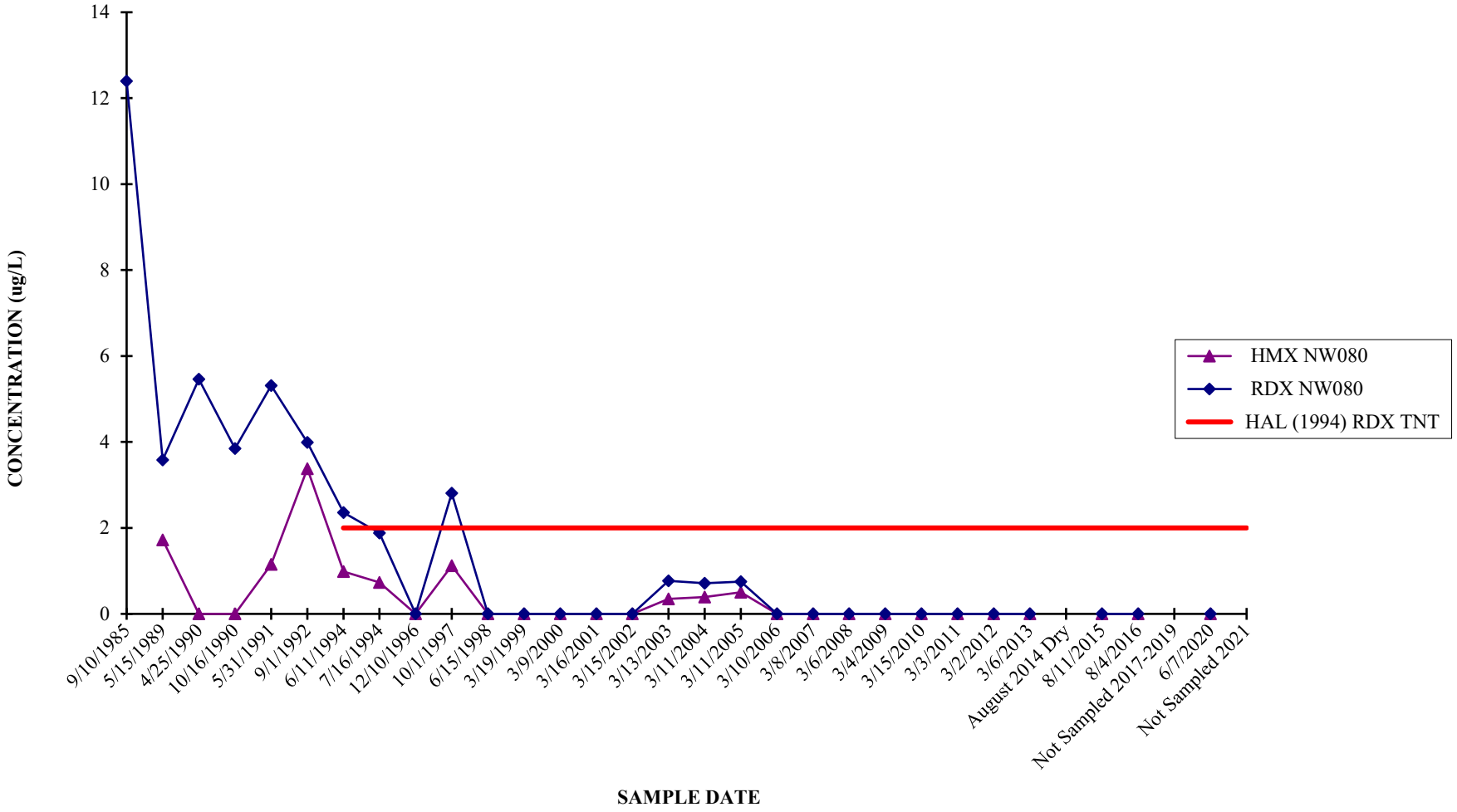
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW070 - RDX



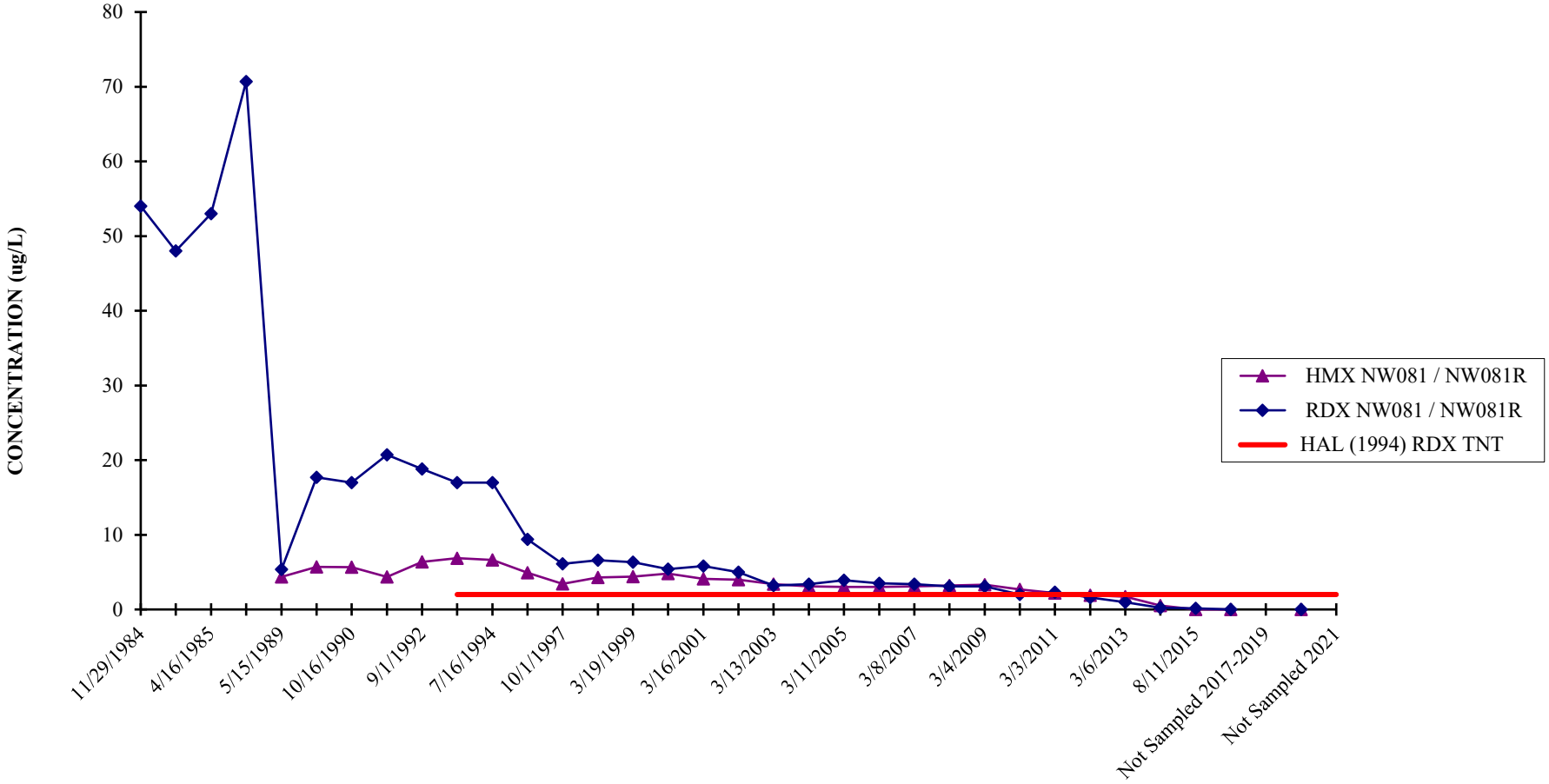
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW071 - RDX



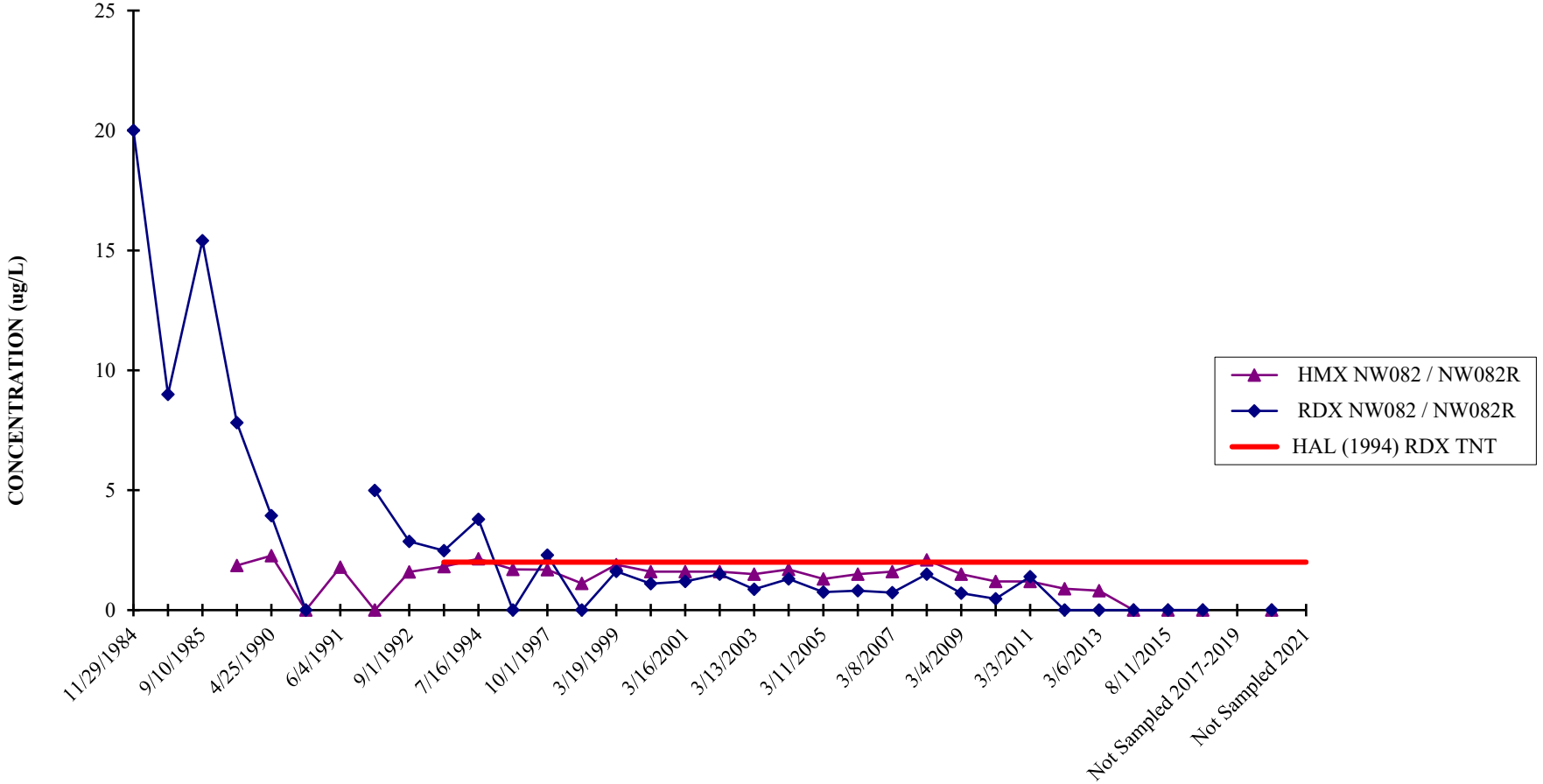
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW080 - HMX AND RDX



CORNHUSKER ARMY AMMUNITION PLANT
WELL NW081/NW081R* - HMX AND RDX



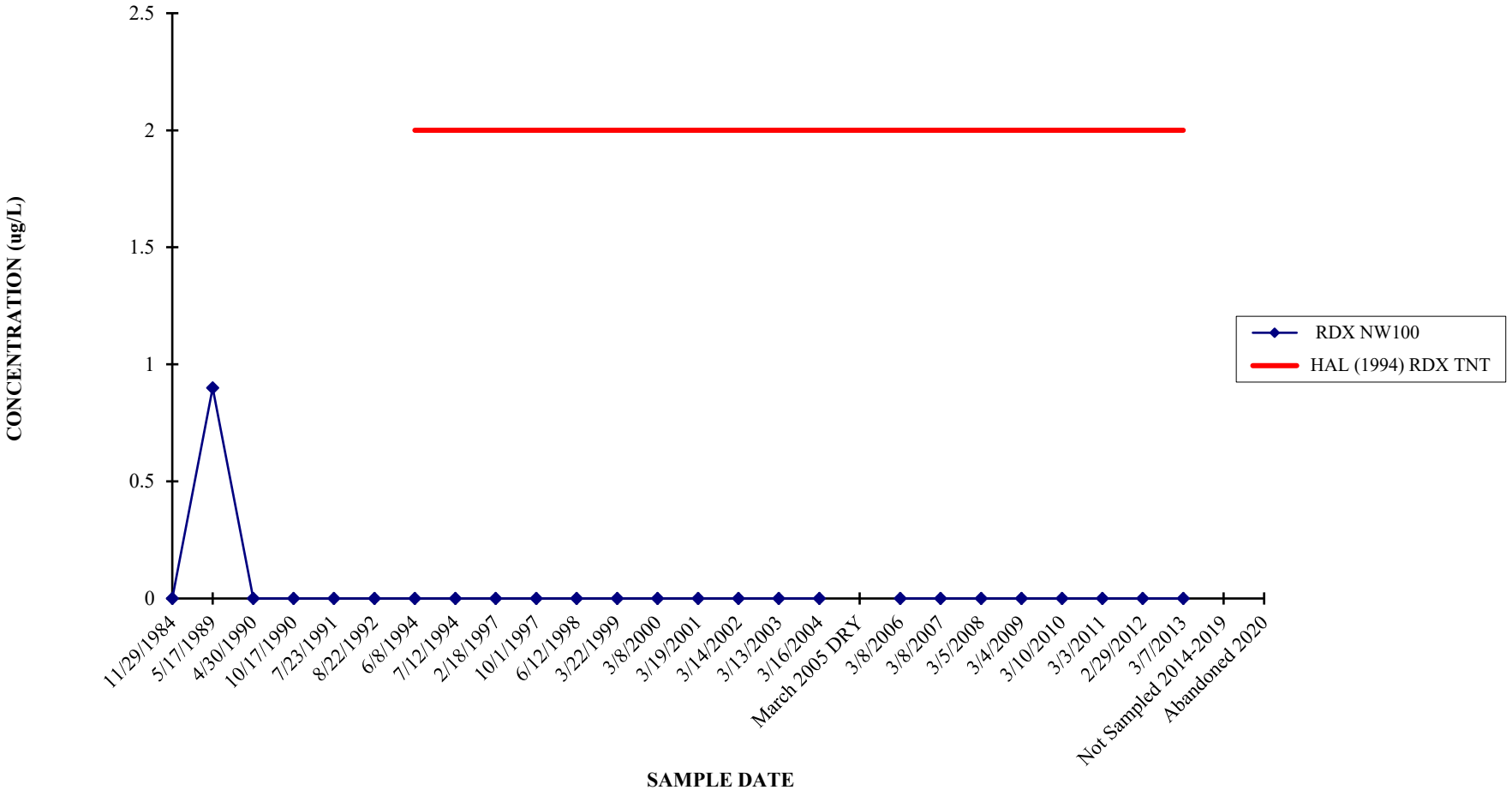
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW082/NW082R* - HMX AND RDX



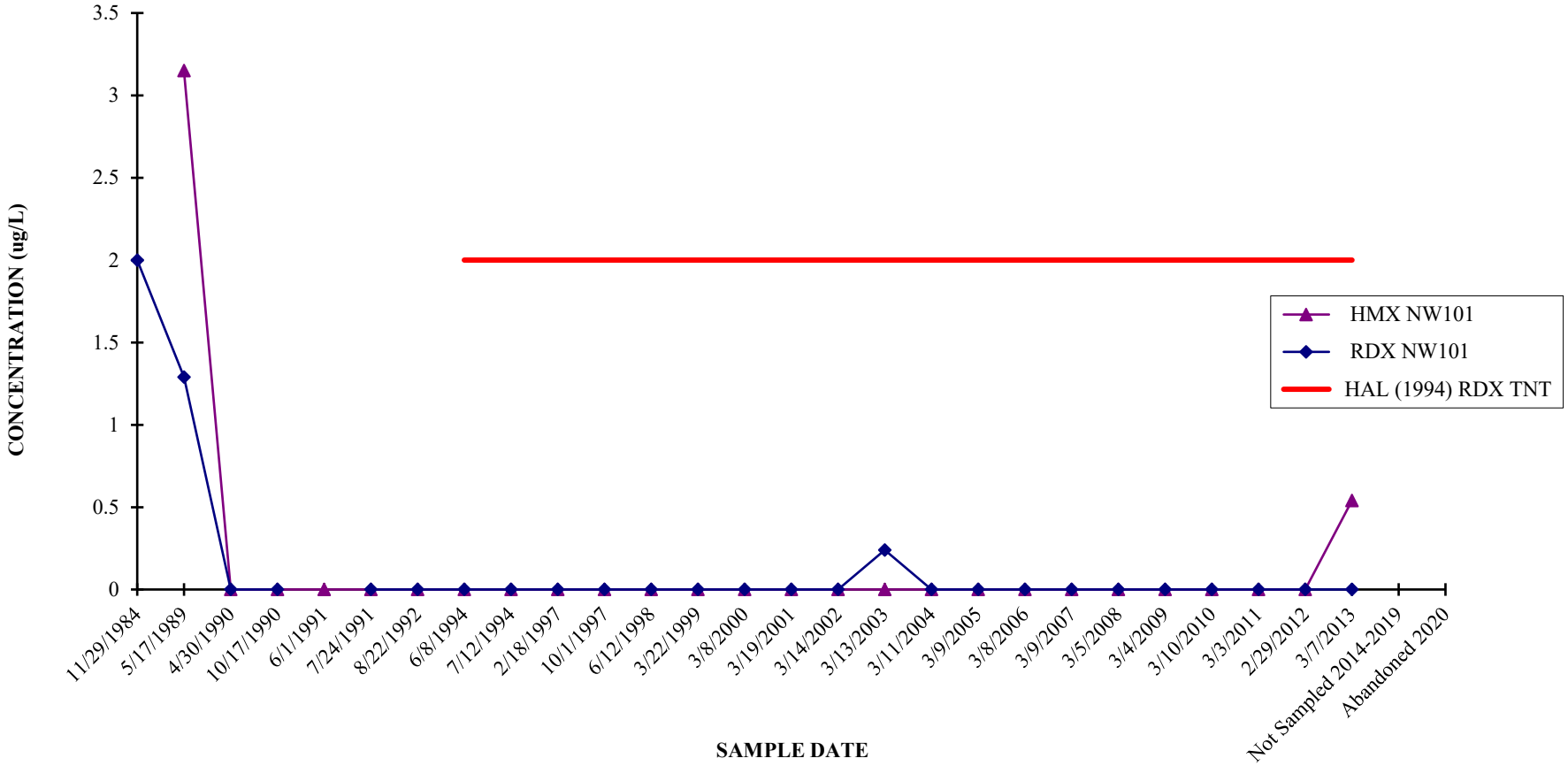
SAMPLE DATE

*** Well NW082 was abandoned and replaced by well NW082R in April 2012**

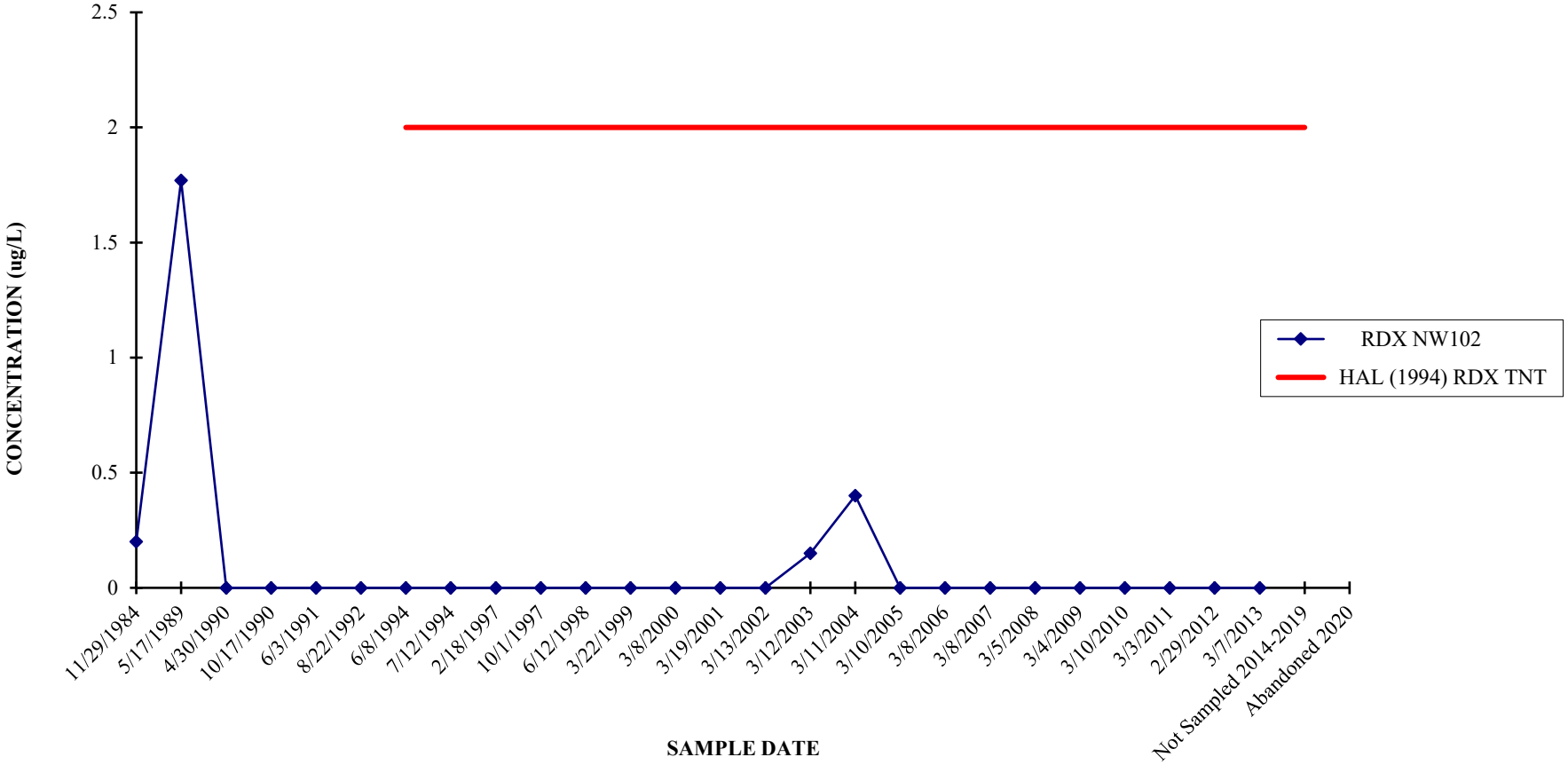
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW100 - RDX



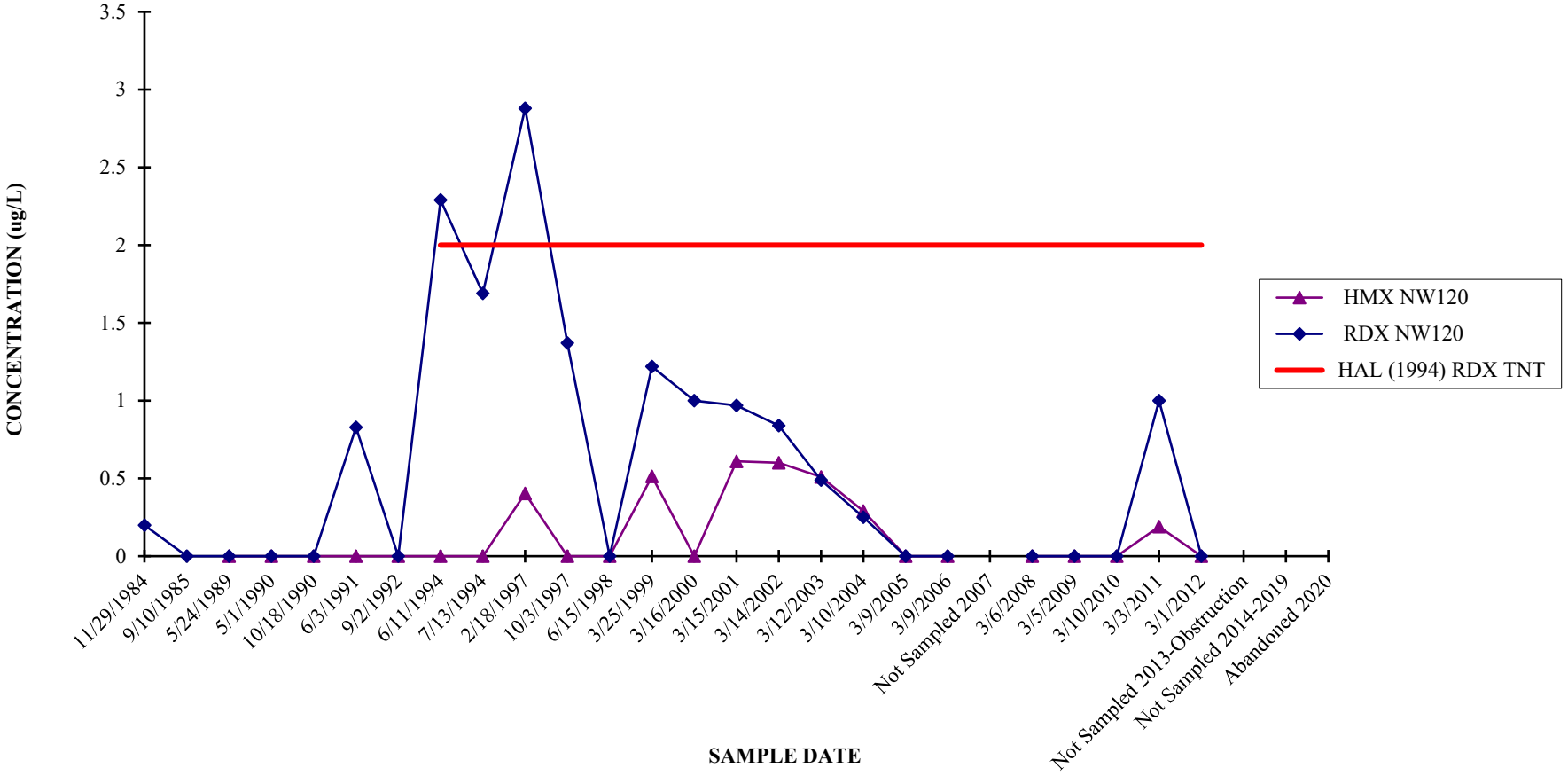
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW101 - HMX AND RDX



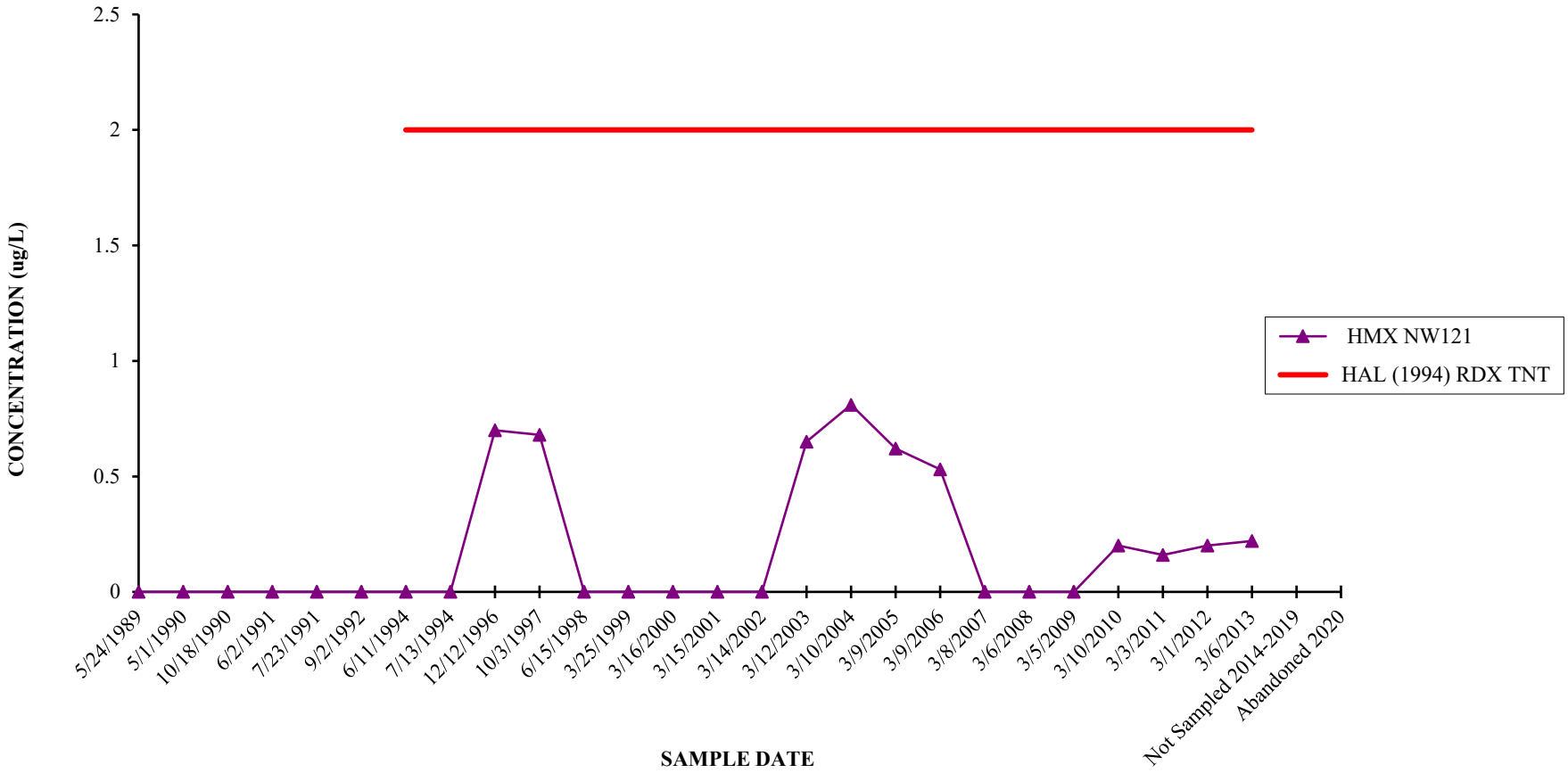
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW102 - RDX



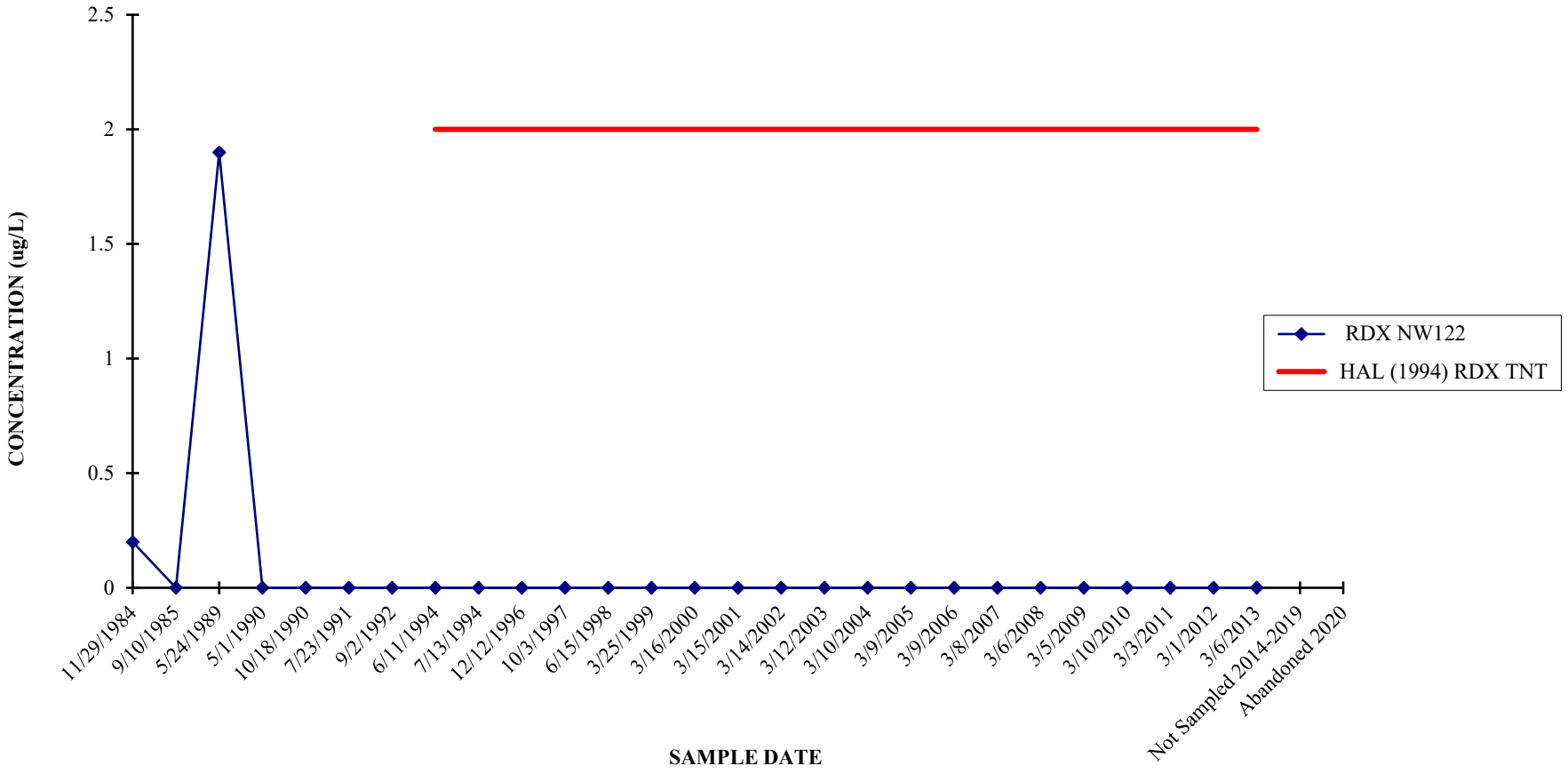
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW120 - HMX AND RDX



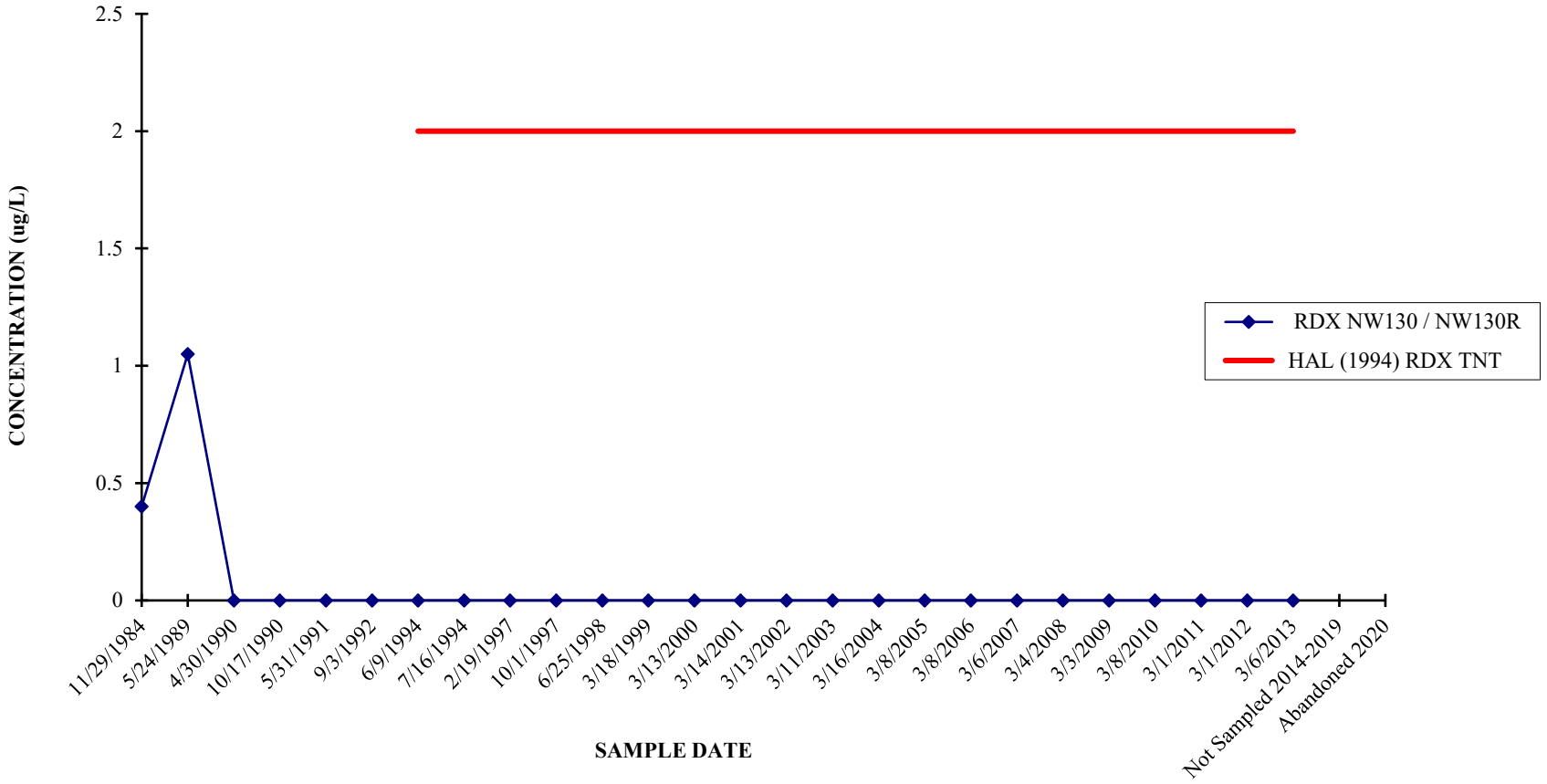
CORNHUSKER ARMY AMMUNITION PLANT
WELL NW121 - HMX



CORNHUSKER ARMY AMMUNITION PLANT
WELL NW122 - RDX

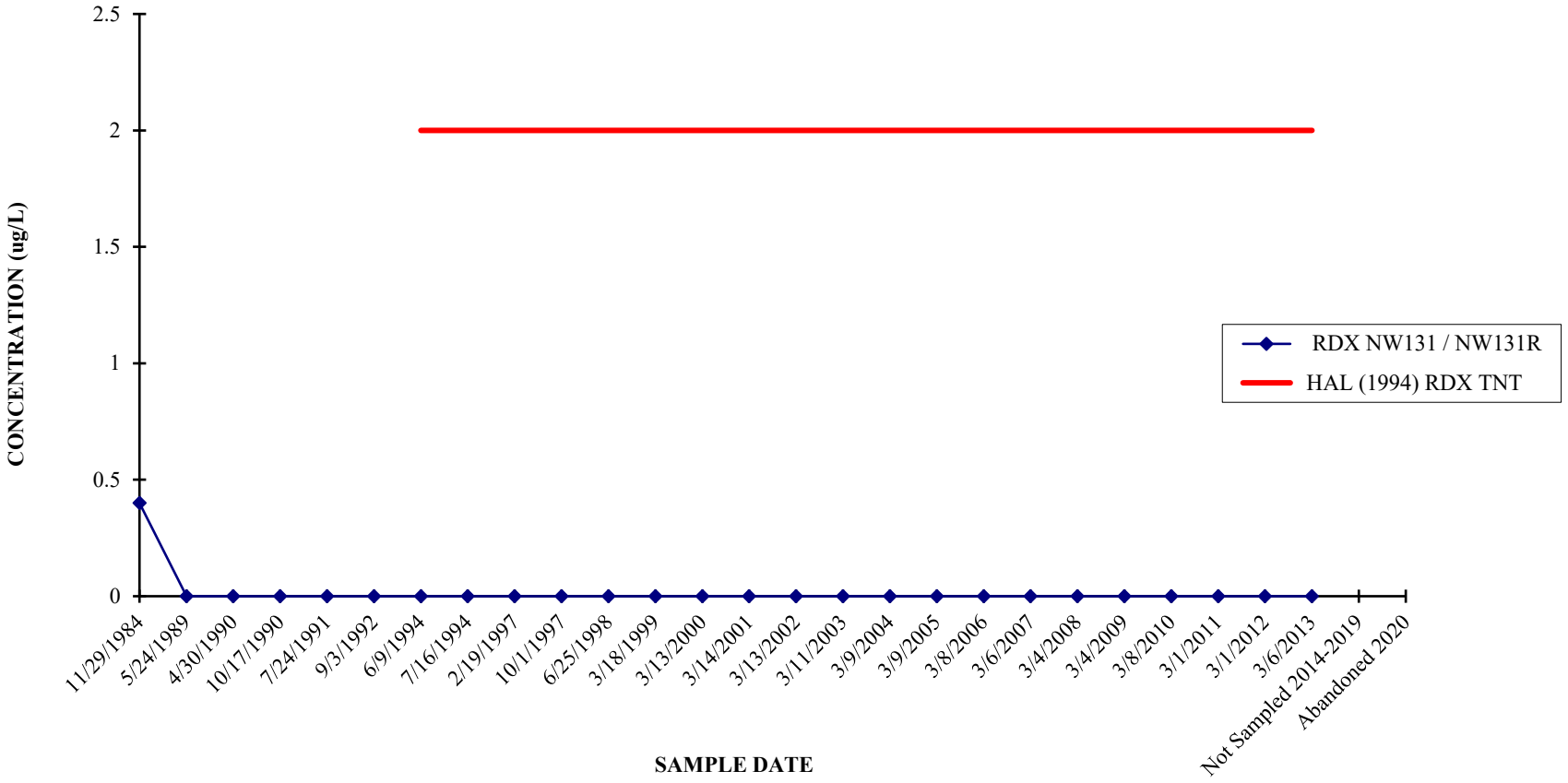


CORNHUSKER ARMY AMMUNITION PLANT
WELL NW130/NW130R* - RDX



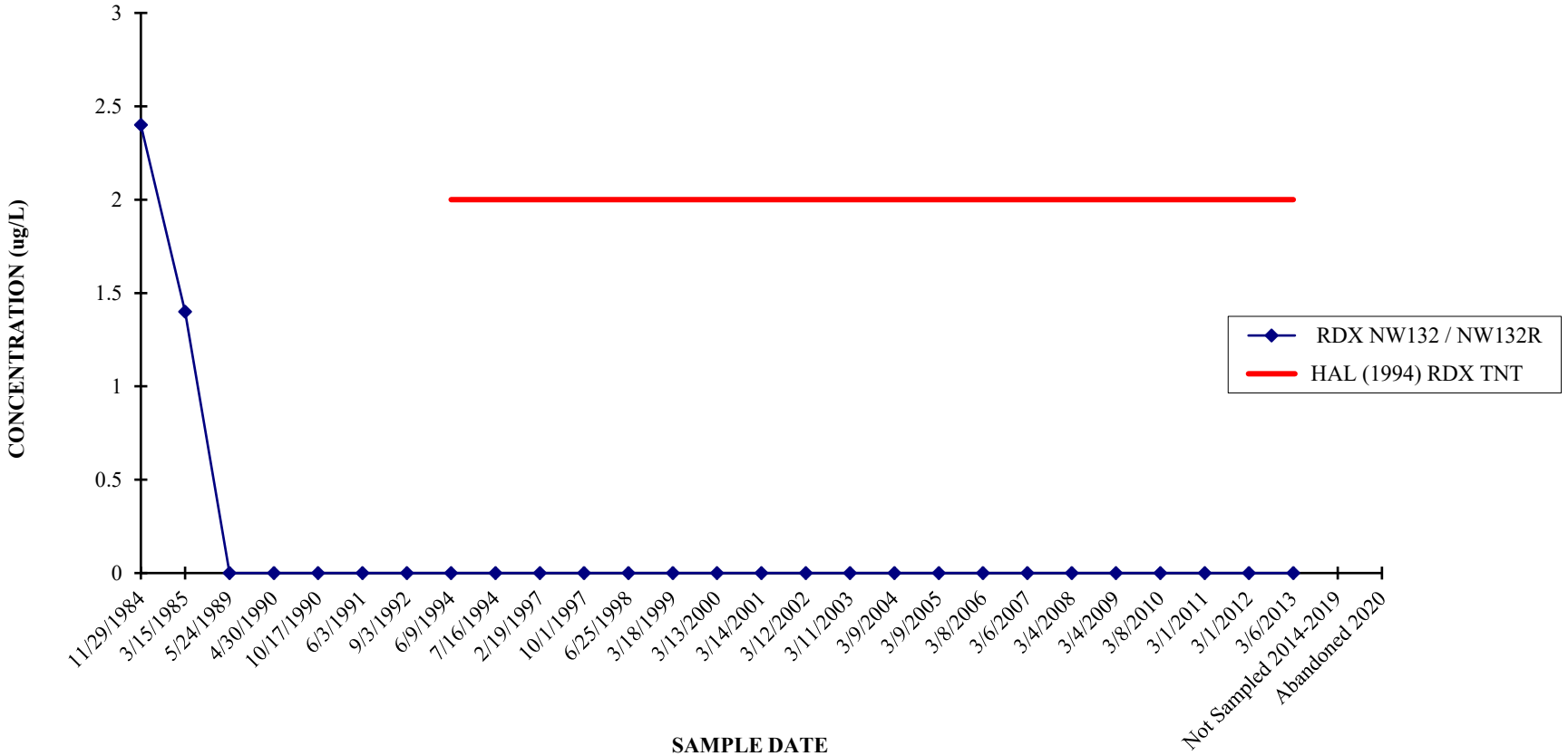
*** Well NW130 was abandoned and replaced by well NW130R in February 2004.**

CORNHUSKER ARMY AMMUNITION PLANT
WELL NW131/NW131R* - RDX



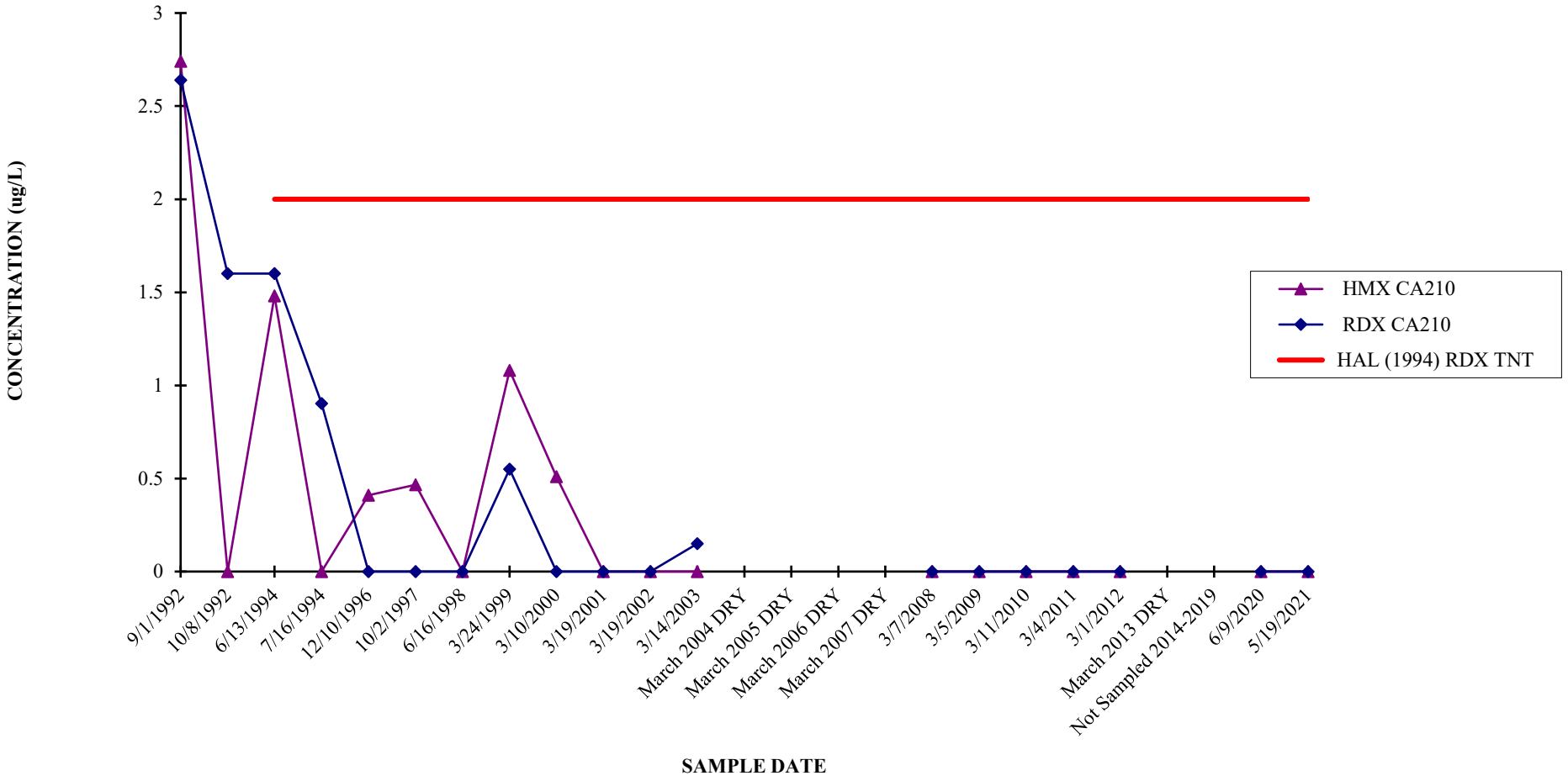
*** Well NW131 was abandoned and replaced by well NW131R in February 2004.**

CORNHUSKER ARMY AMMUNITION PLANT
WELL NW132/NW132R* - RDX

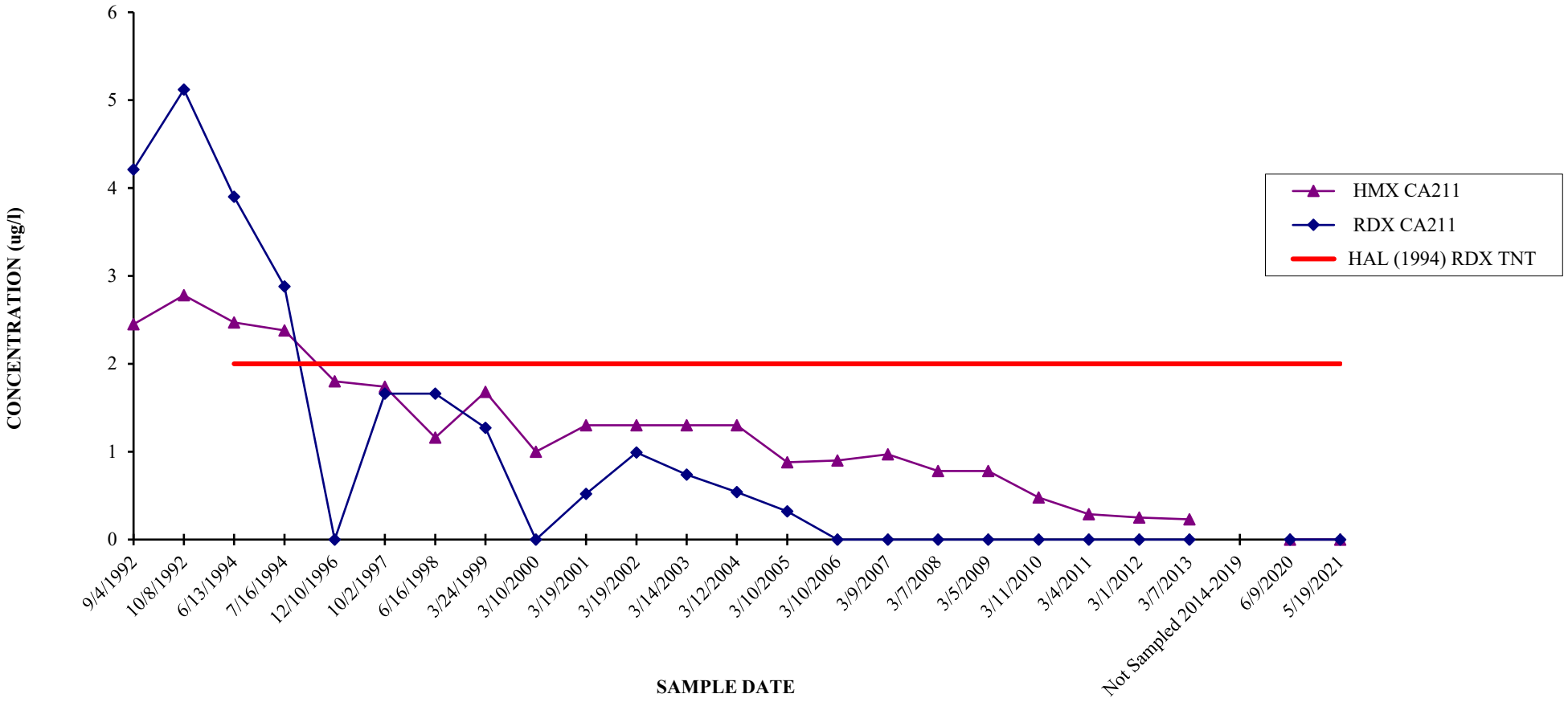


*** Well NW132 was abandoned and replaced by well NW132R in February 2004.**

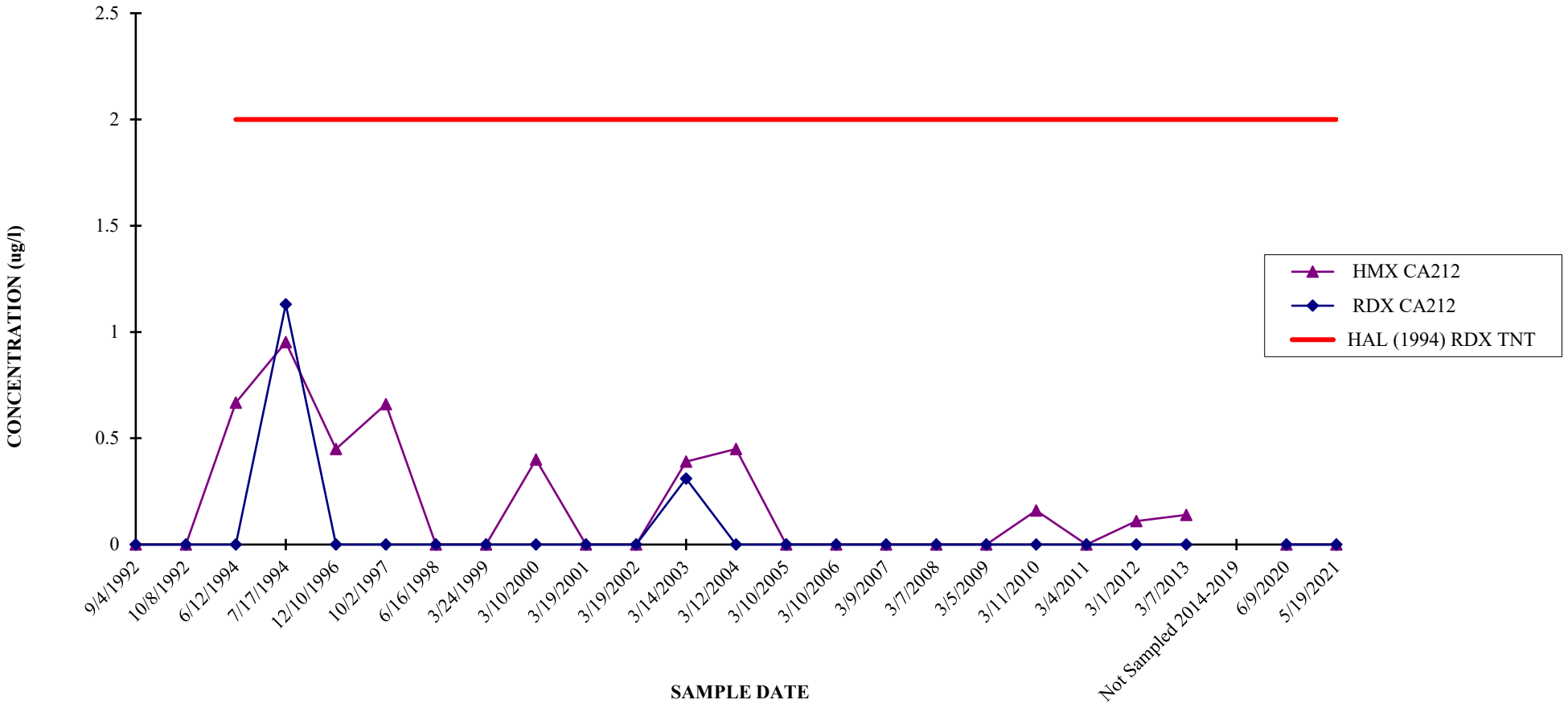
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA210 - HMX AND RDX



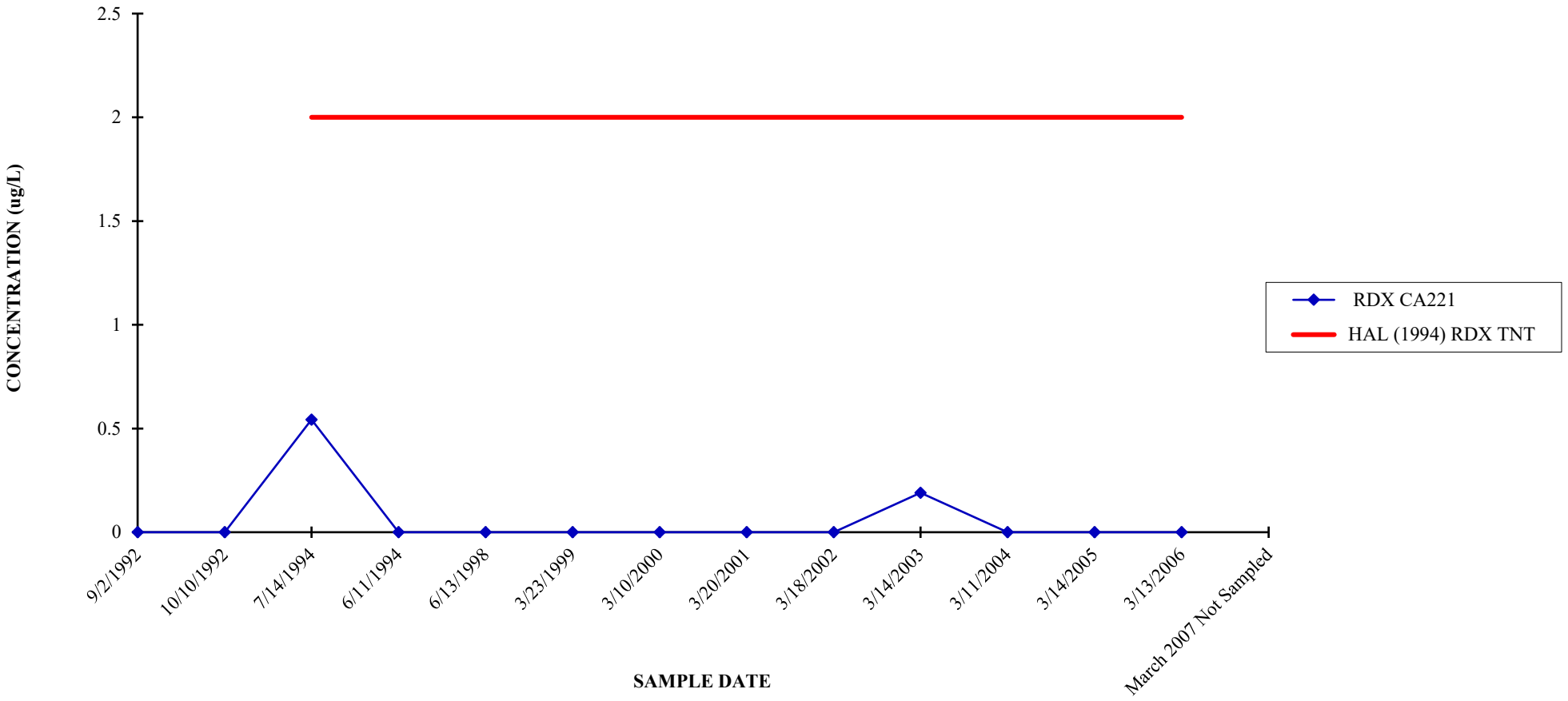
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA211 - HMX AND RDX



CORNHUSKER ARMY AMMUNITION PLANT
WELL CA212 - HMX AND RDX

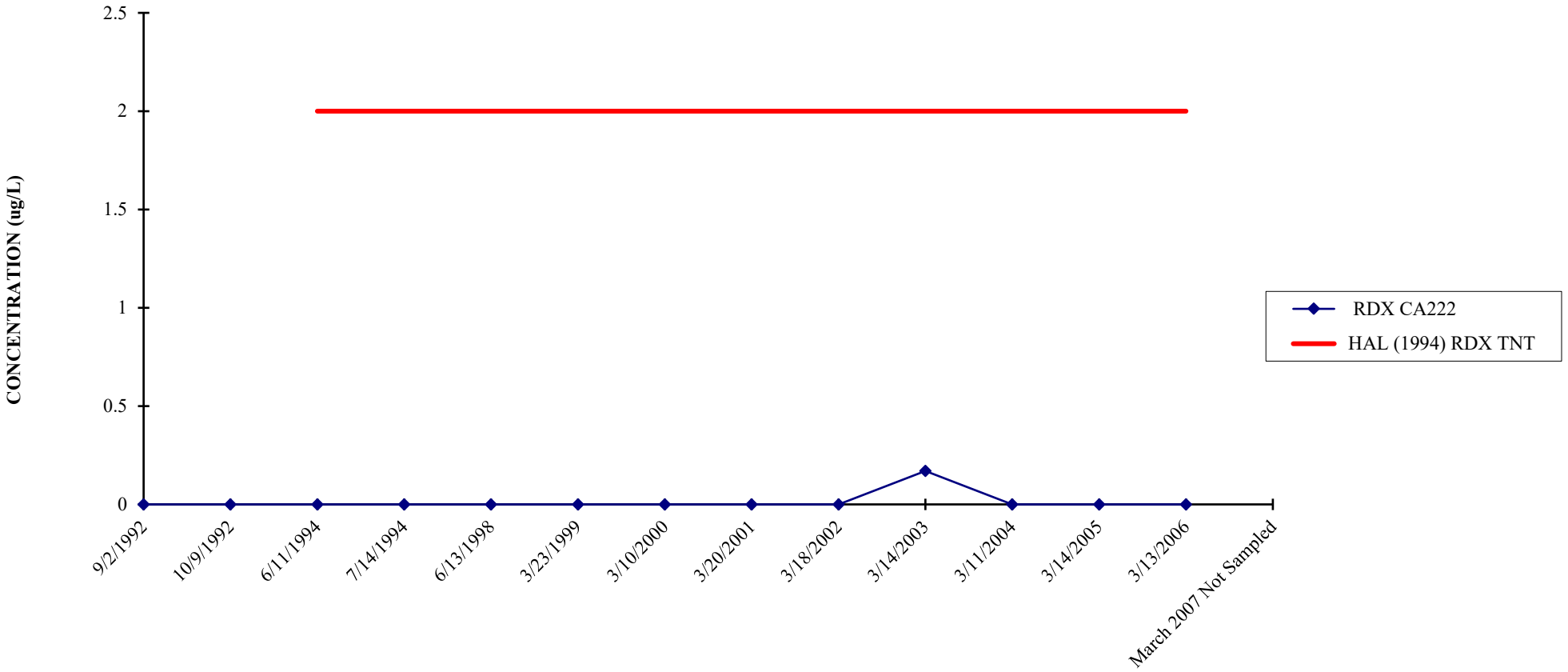


CORNHUSKER ARMY AMMUNITION PLANT
WELL CA221 - RDX



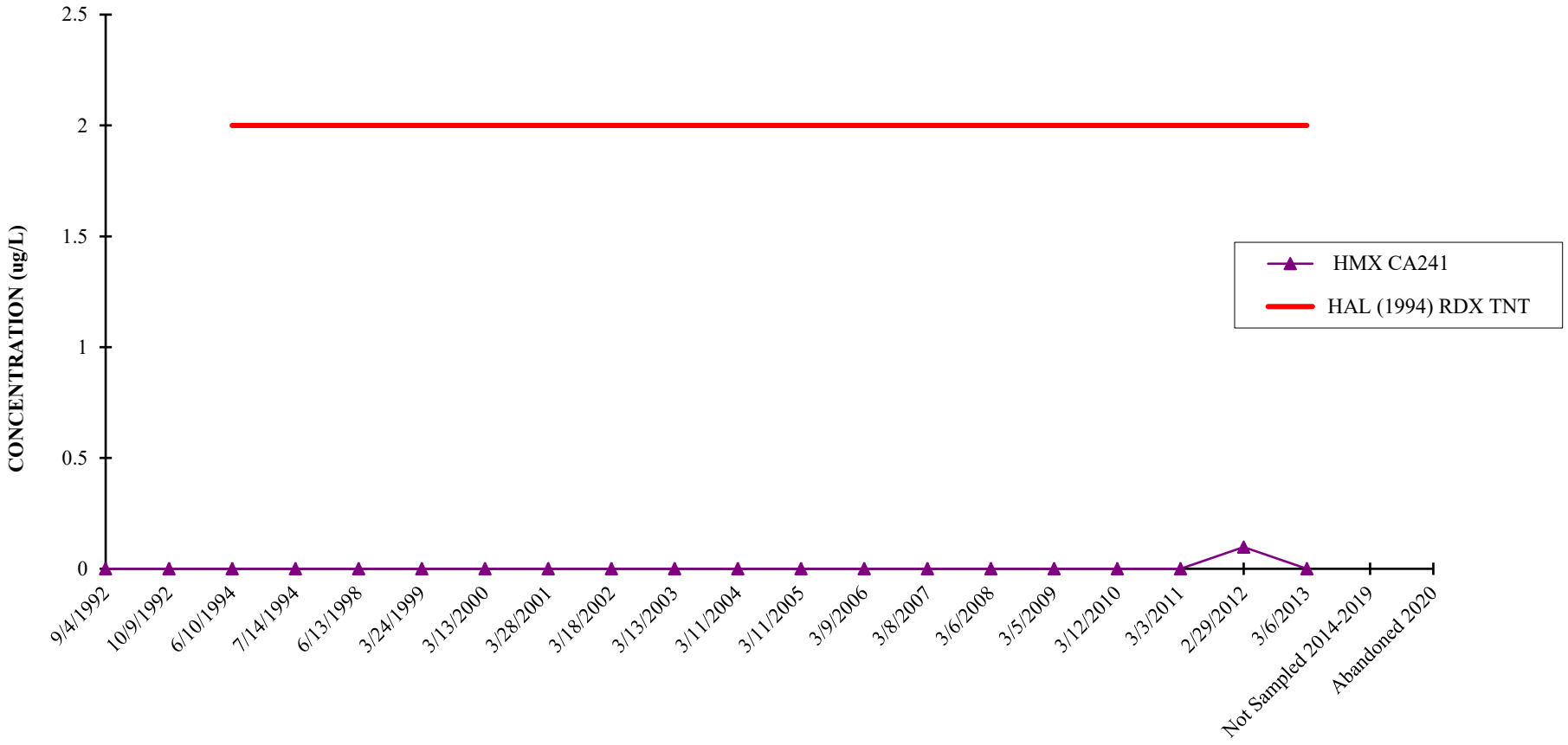
NOTE: Well CA221 was abandoned in 2008.

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA222 - RDX

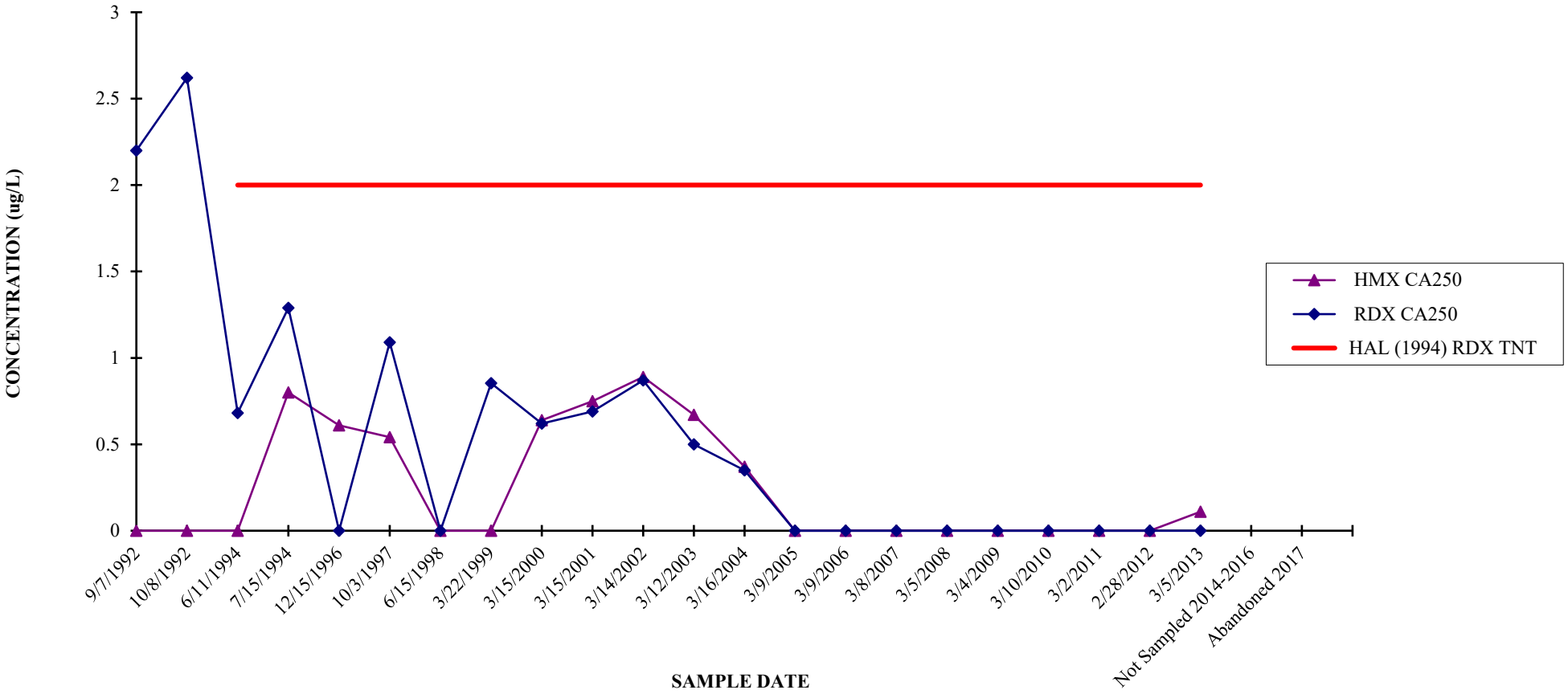


NOTE: Well CA222 was abandoned in 2008.

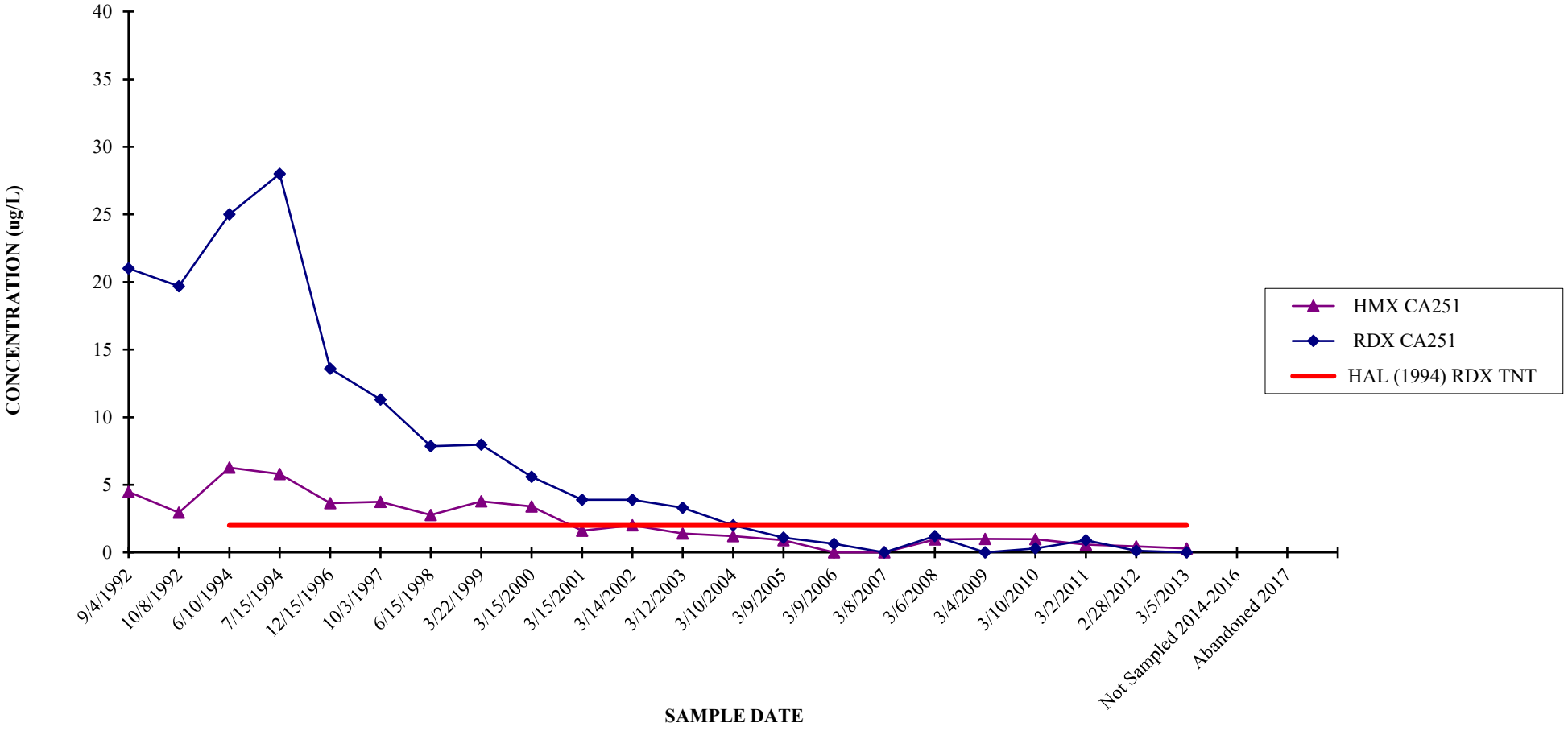
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA241 - HMX



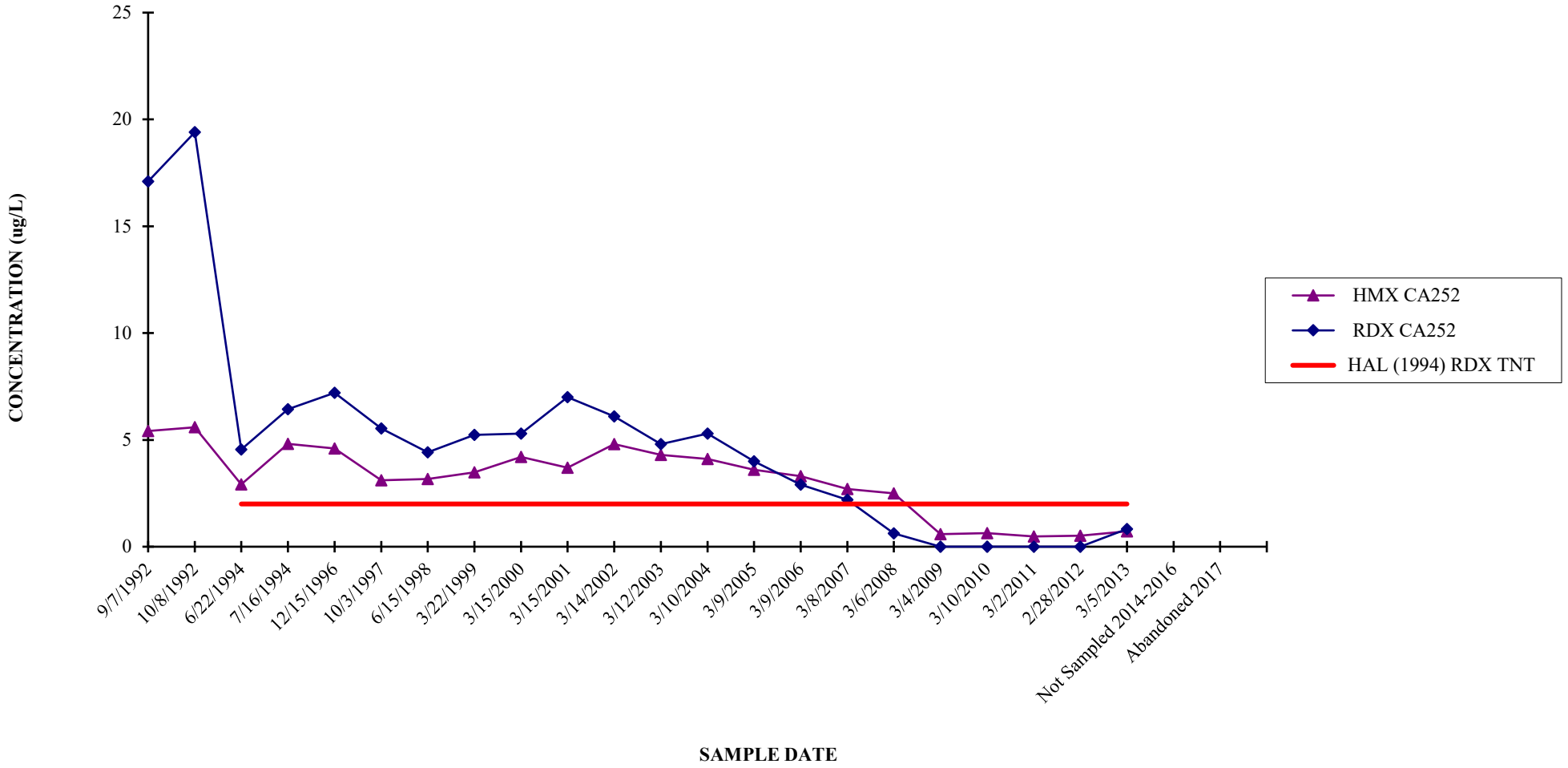
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA250 - HMX AND RDX



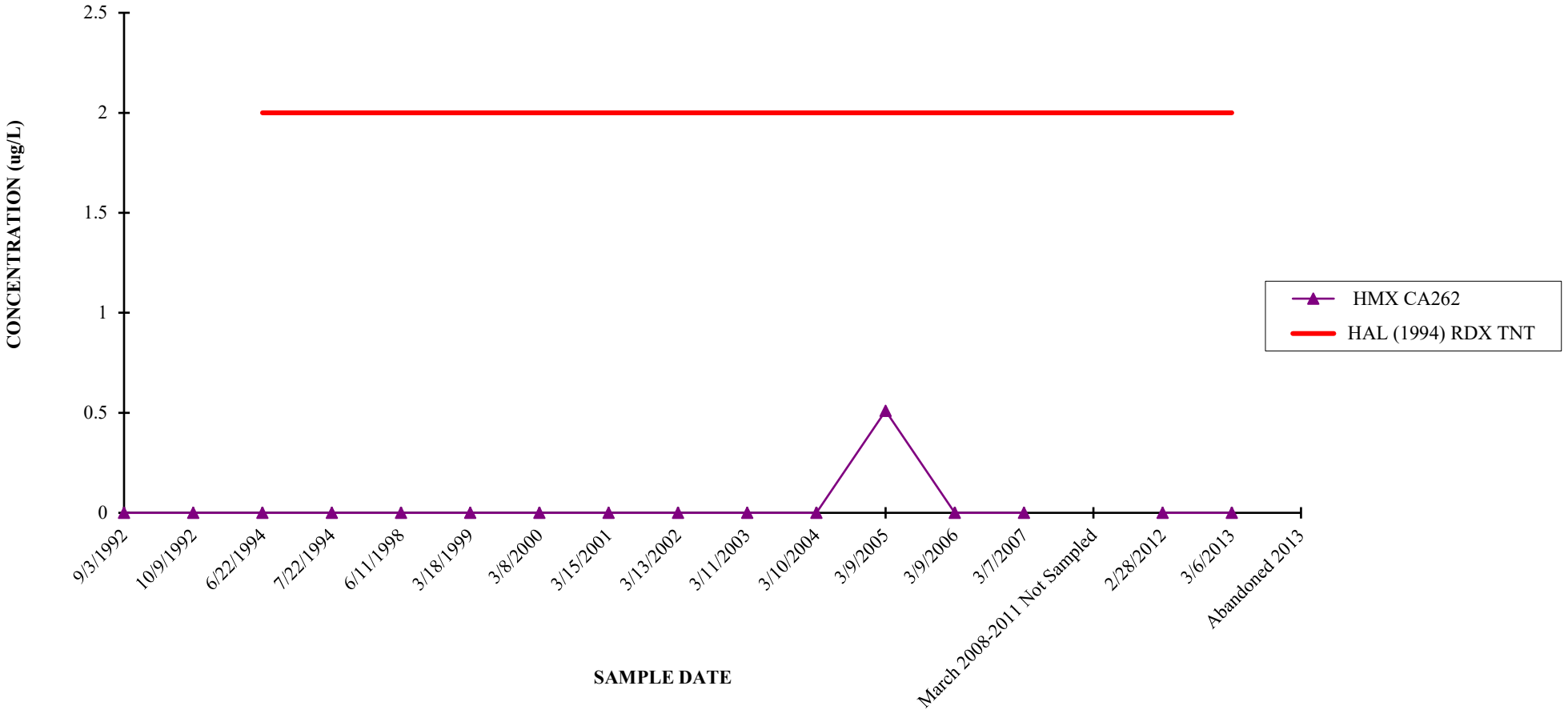
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA251 - HMX AND RDX



CORNHUSKER ARMY AMMUNITION PLANT
WELL CA252 - HMX AND RDX

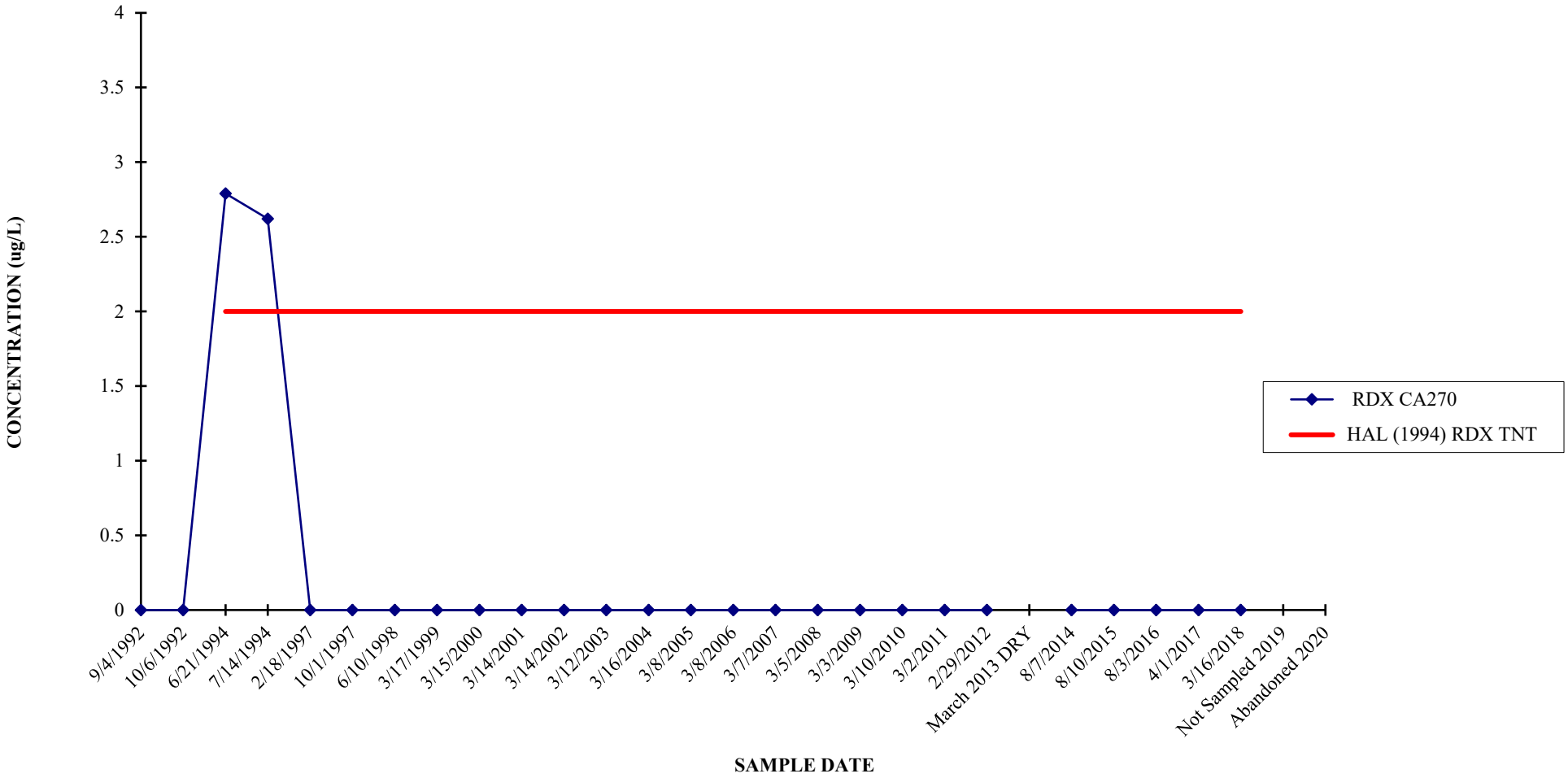


CORNHUSKER ARMY AMMUNITION PLANT
WELL CA262 - HMX

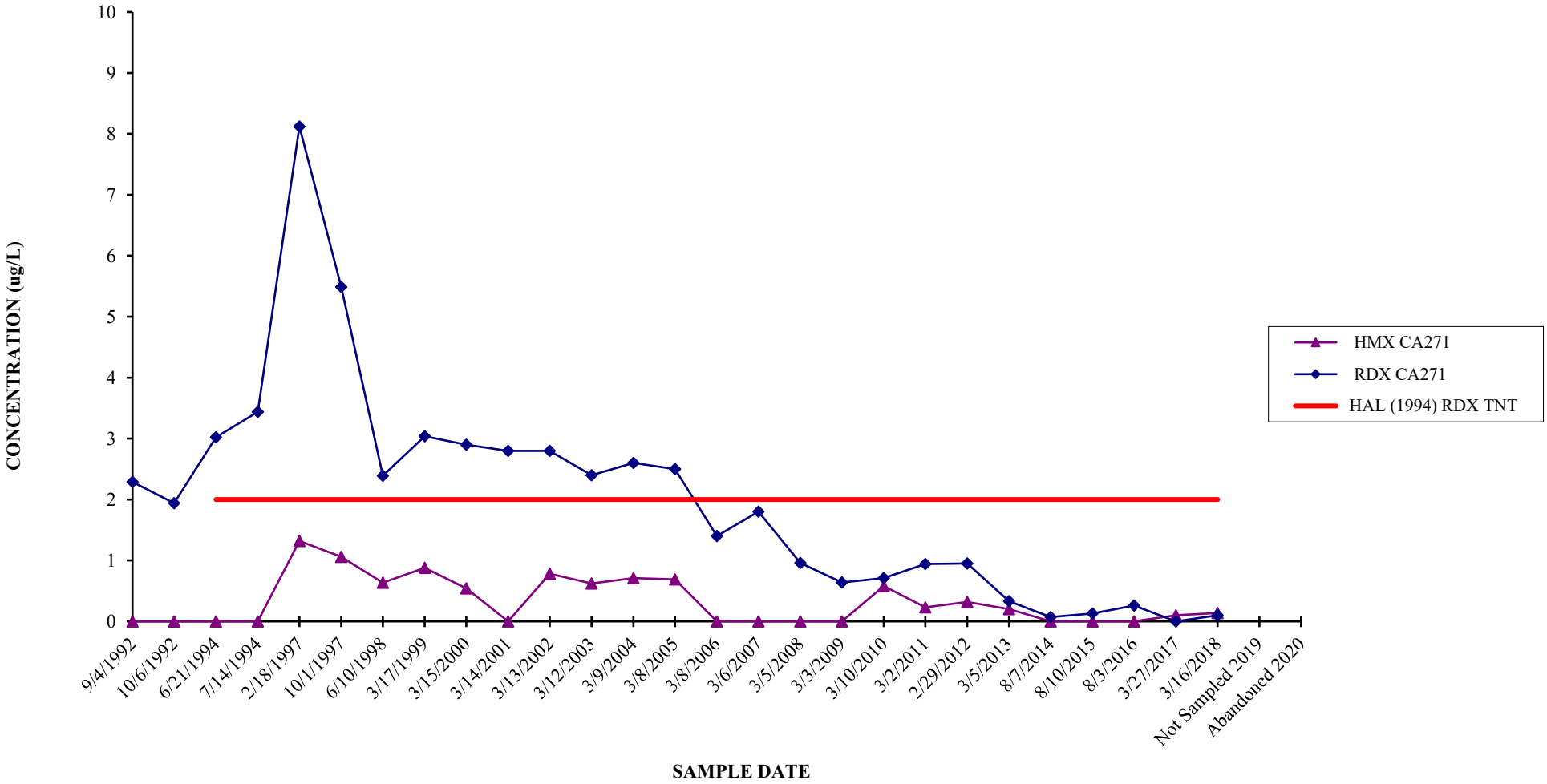


NOTE: Beginning in 2008 CA262 is sampled every 5 years

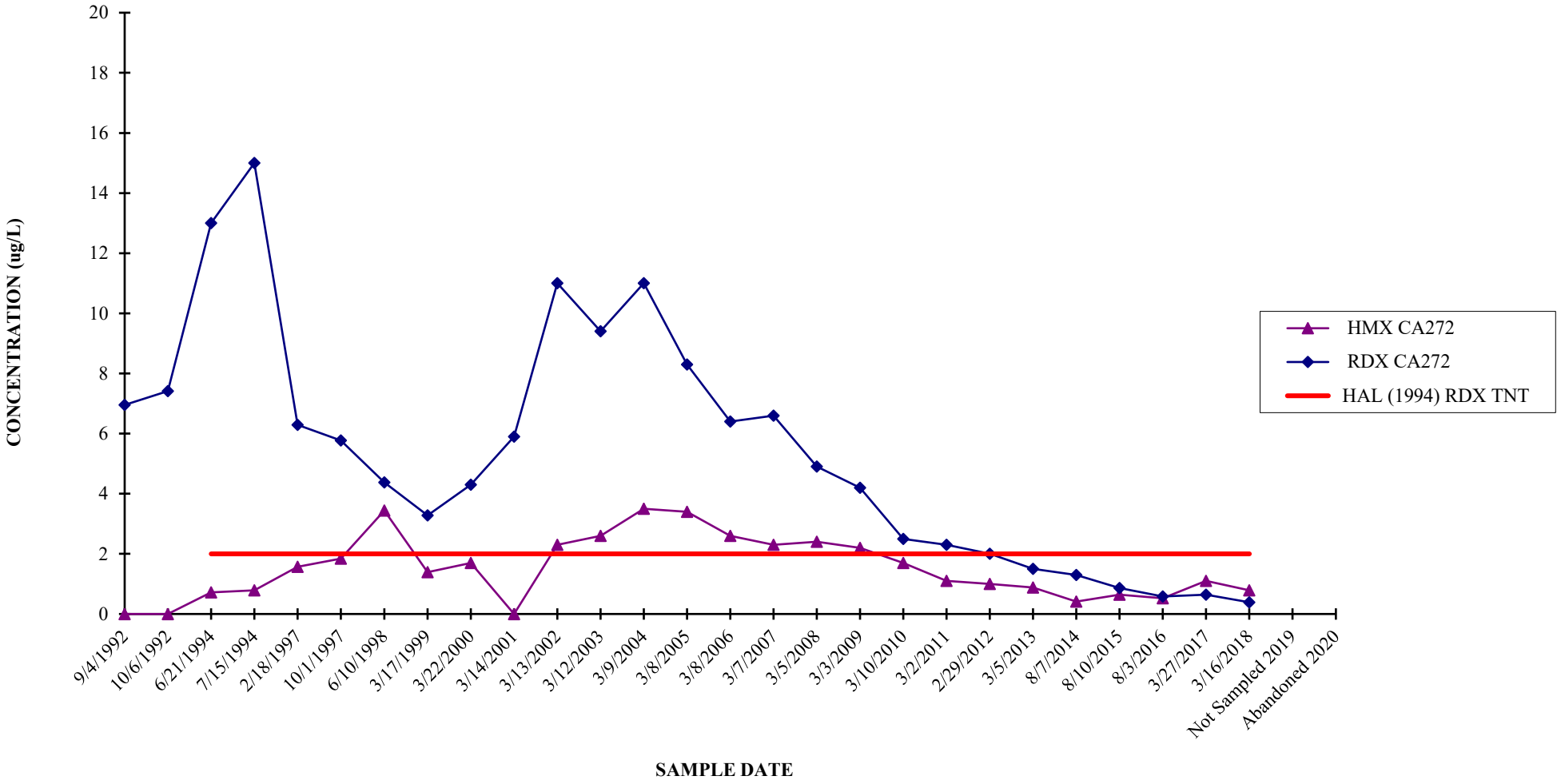
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA270 - RDX



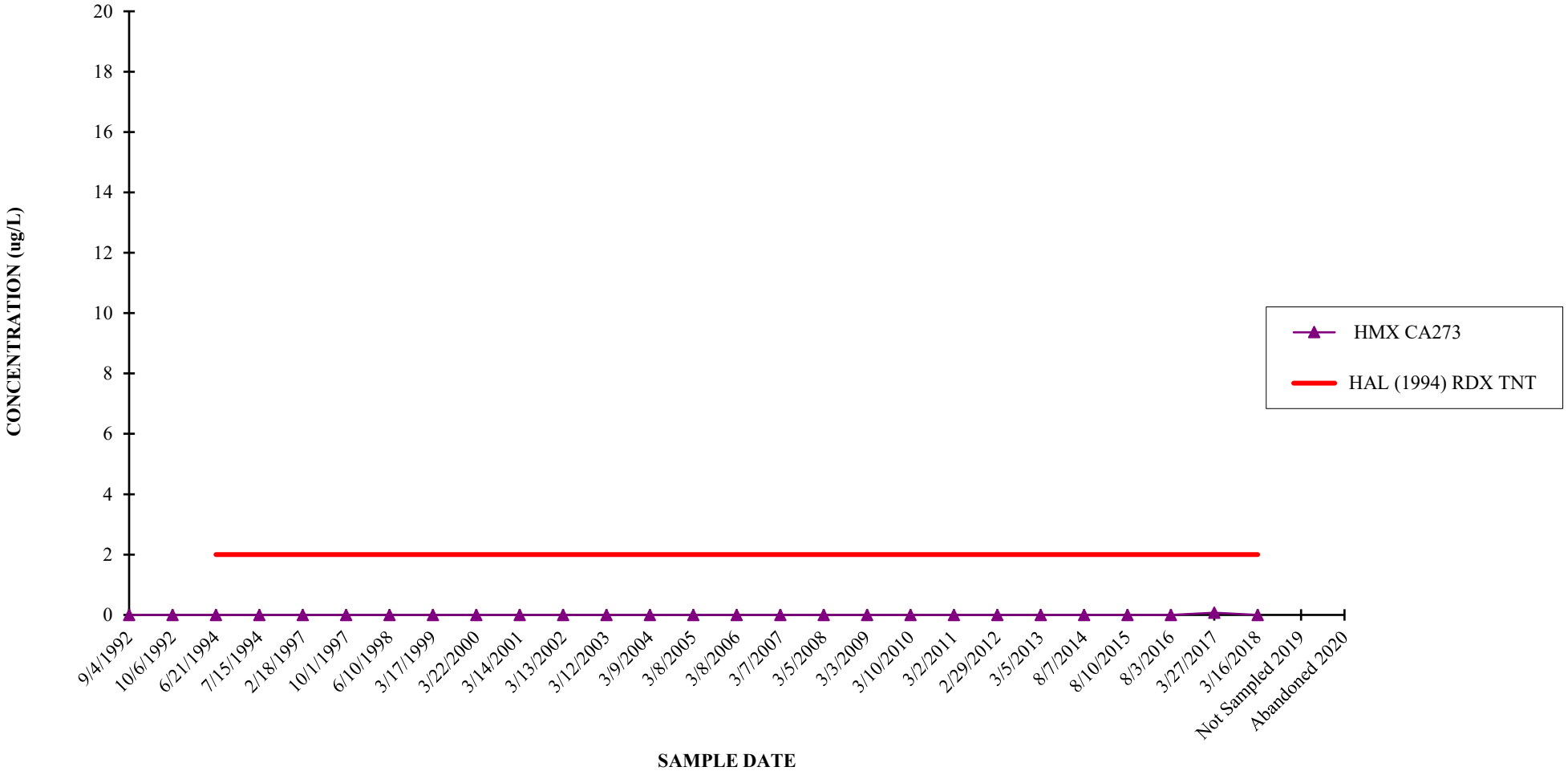
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA271 - HMX AND RDX



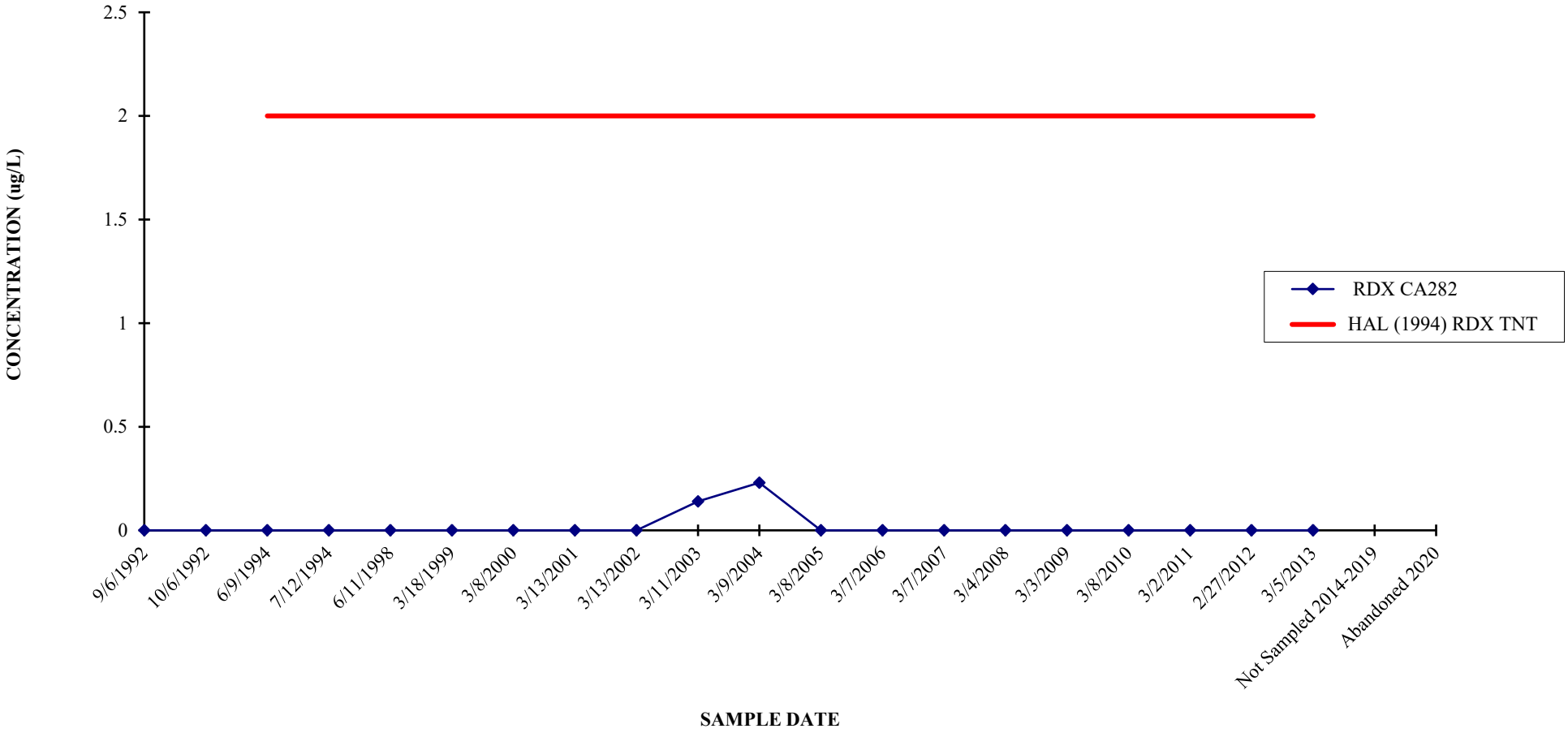
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA272 - HMX AND RDX



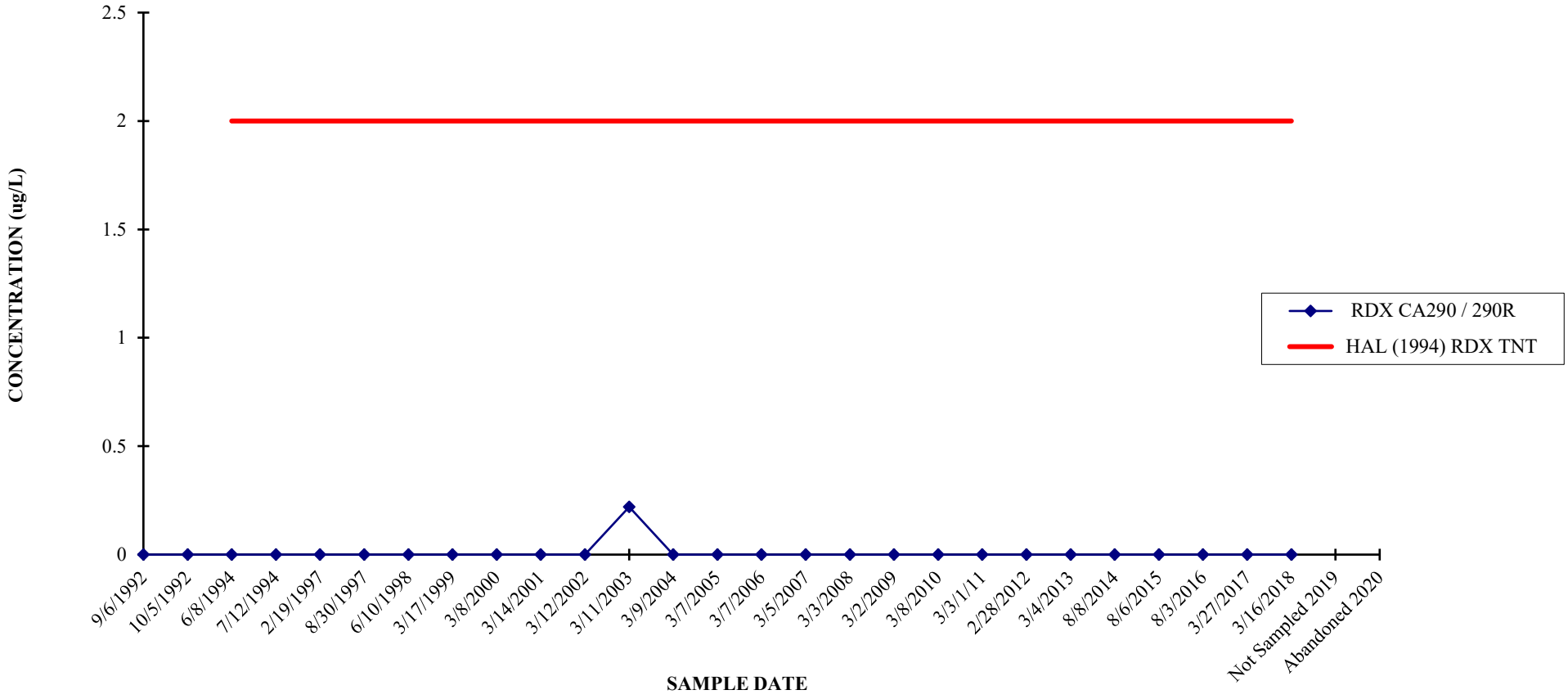
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA273 - HMX



CORNHUSKER ARMY AMMUNITION PLANT
WELL CA282 - RDX

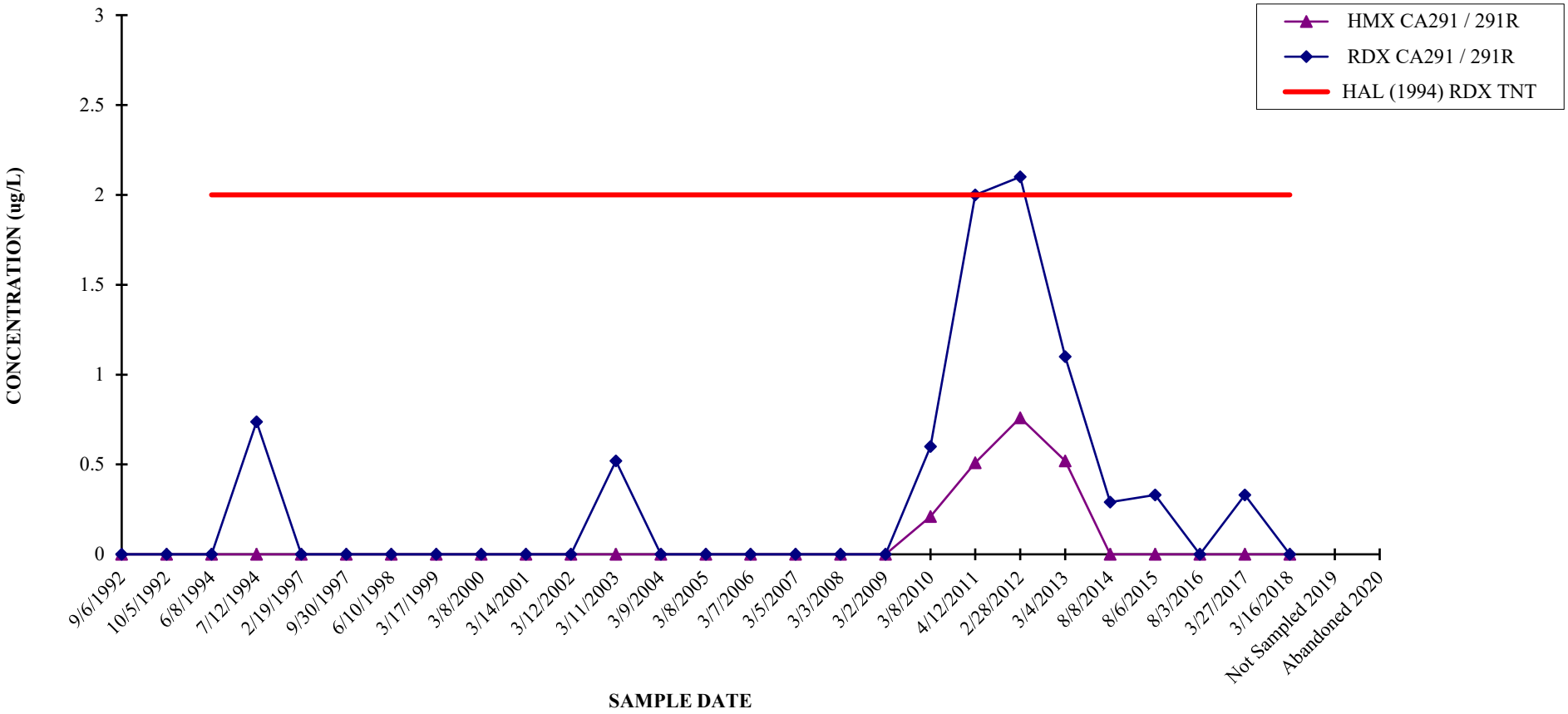


CORNHUSKER ARMY AMMUNITION PLANT
WELL CA290/CA290R* - RDX



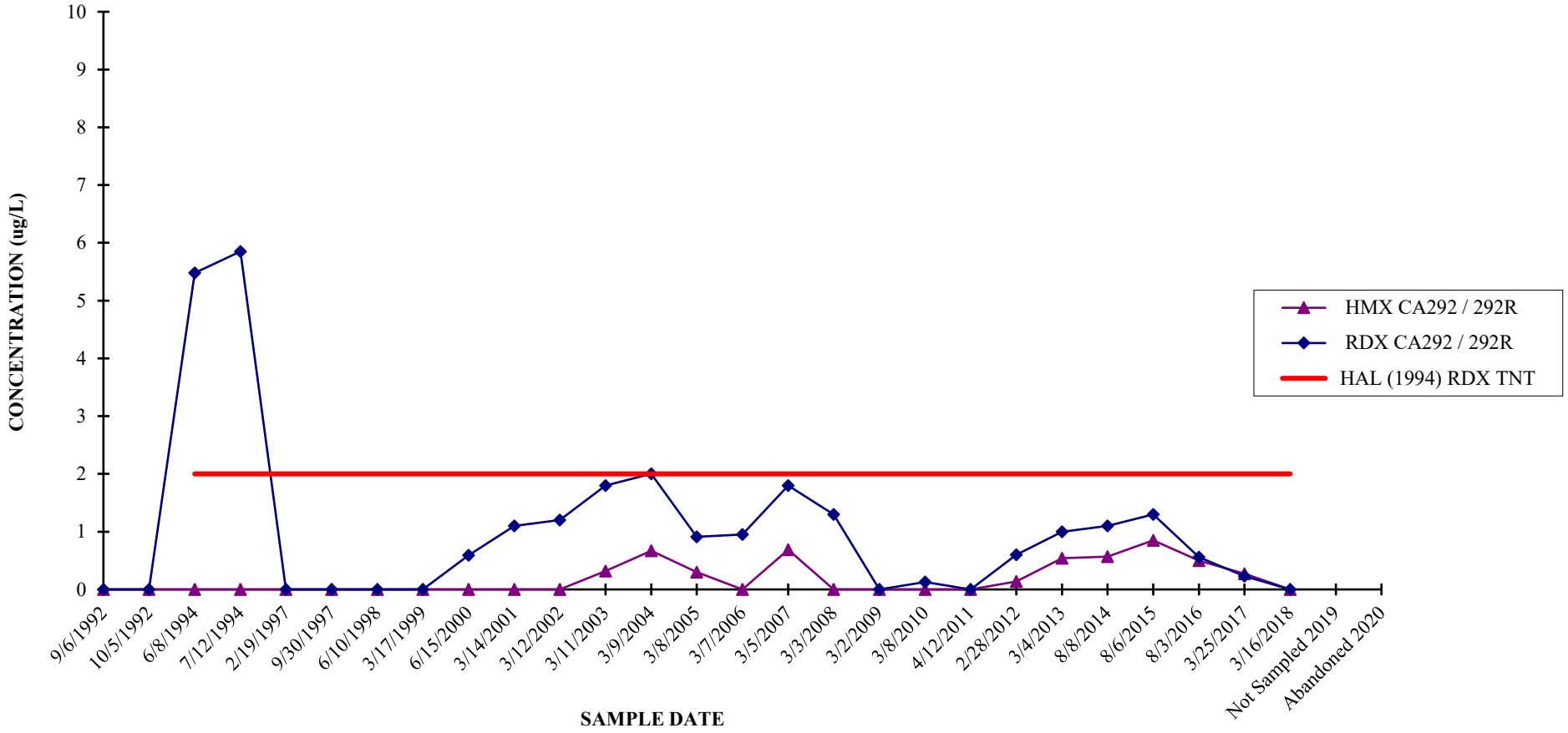
*** Well CA290 was abandoned and replaced by well CA290R in February 2004.**

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA291/CA291R* - HMX AND RDX



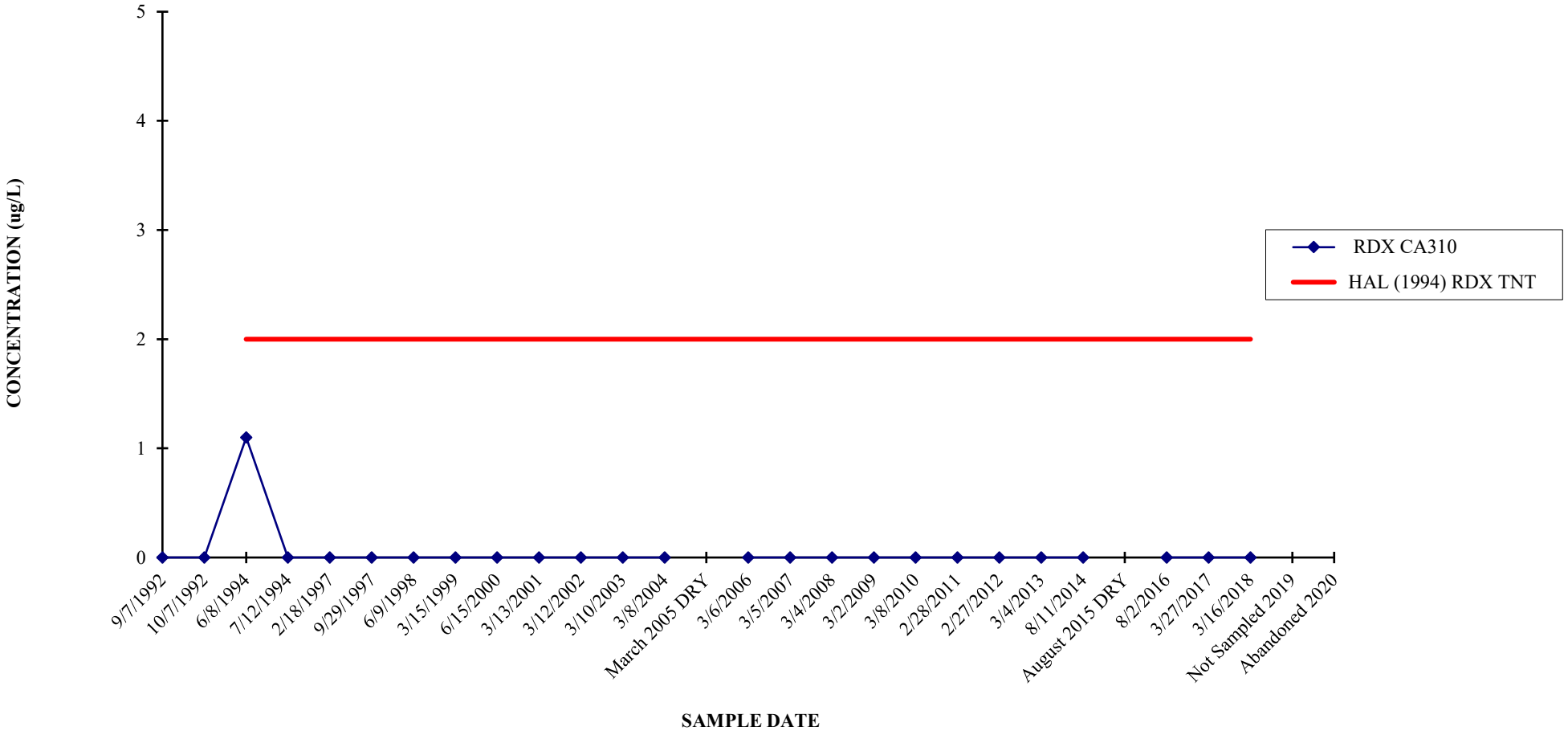
*** Well CA291 was abandoned and replaced by well CA291R in February 2004.**

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA292/CA292R* - HMX AND RDX

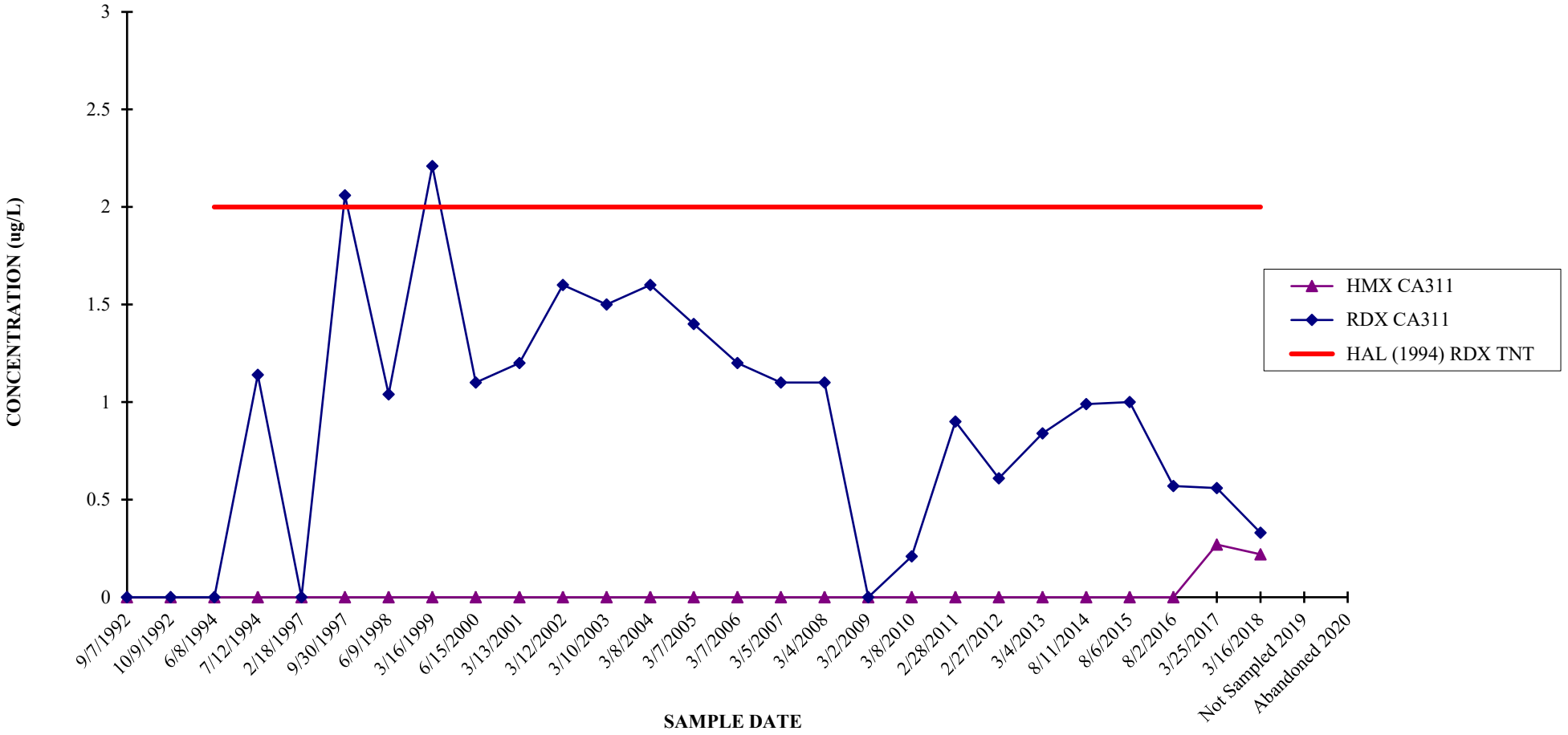


*** Well CA292 was abandonded and replaced by well CA292R in February 2004.**

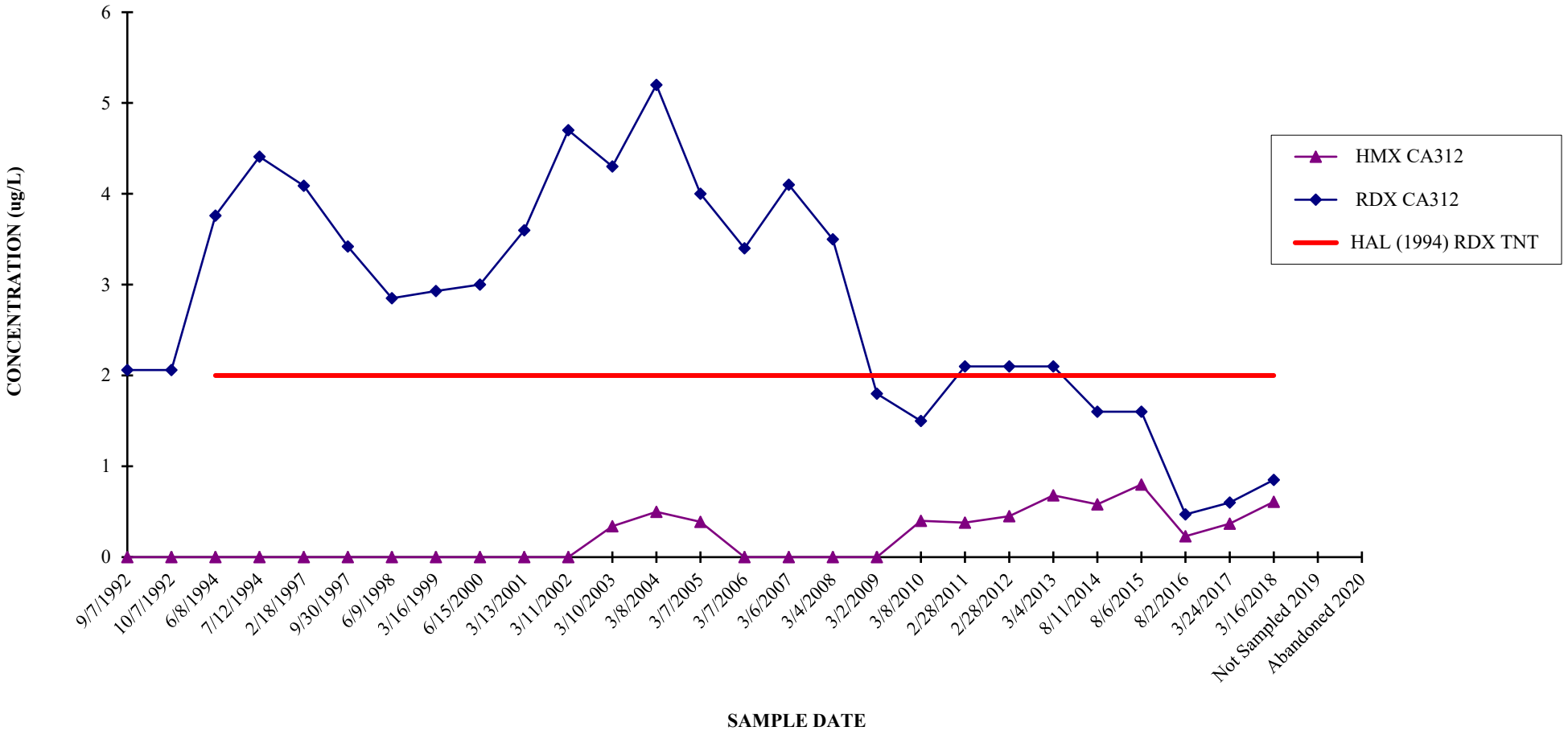
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA310 - RDX



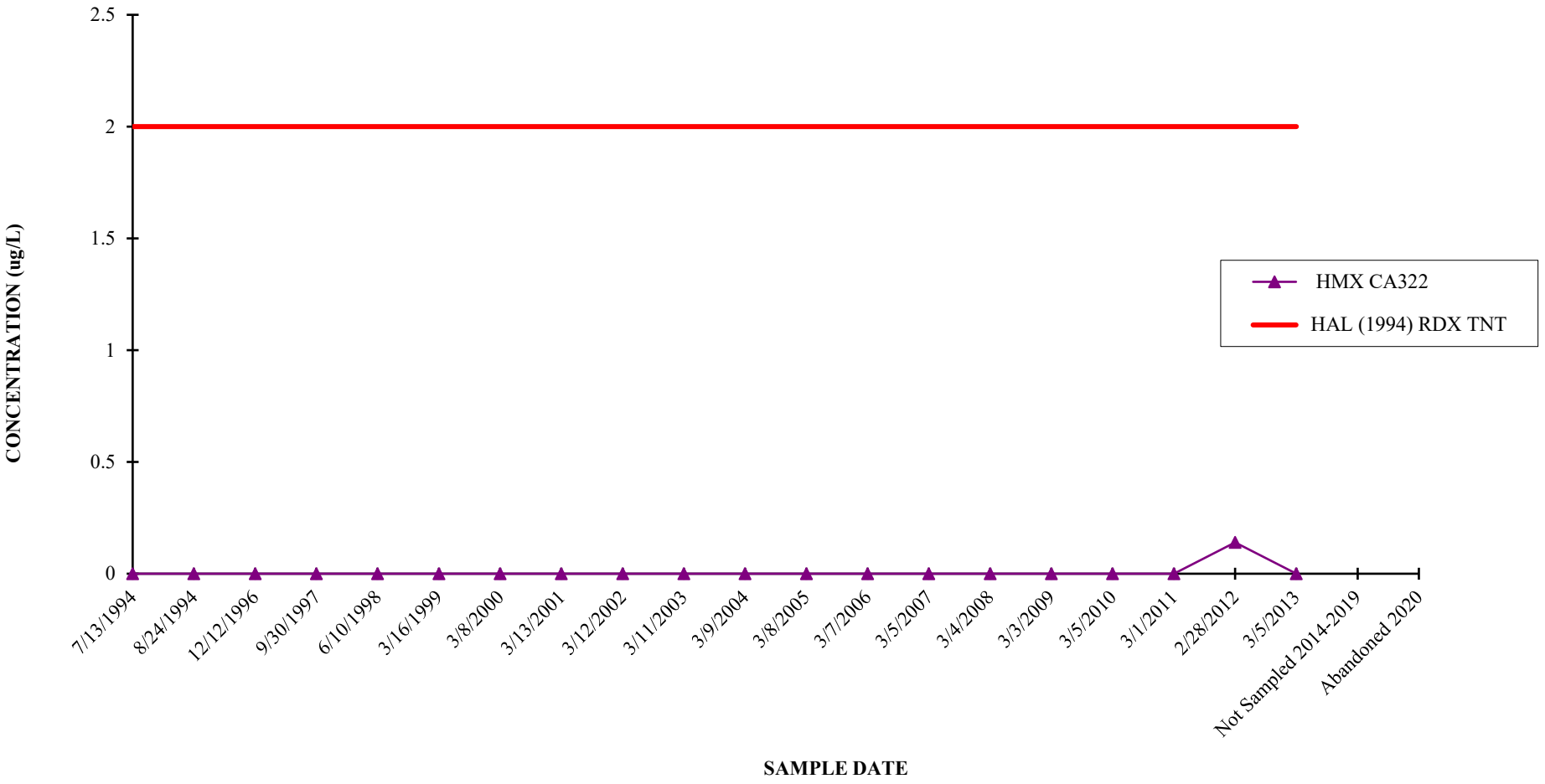
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA311 - HMX AND RDX



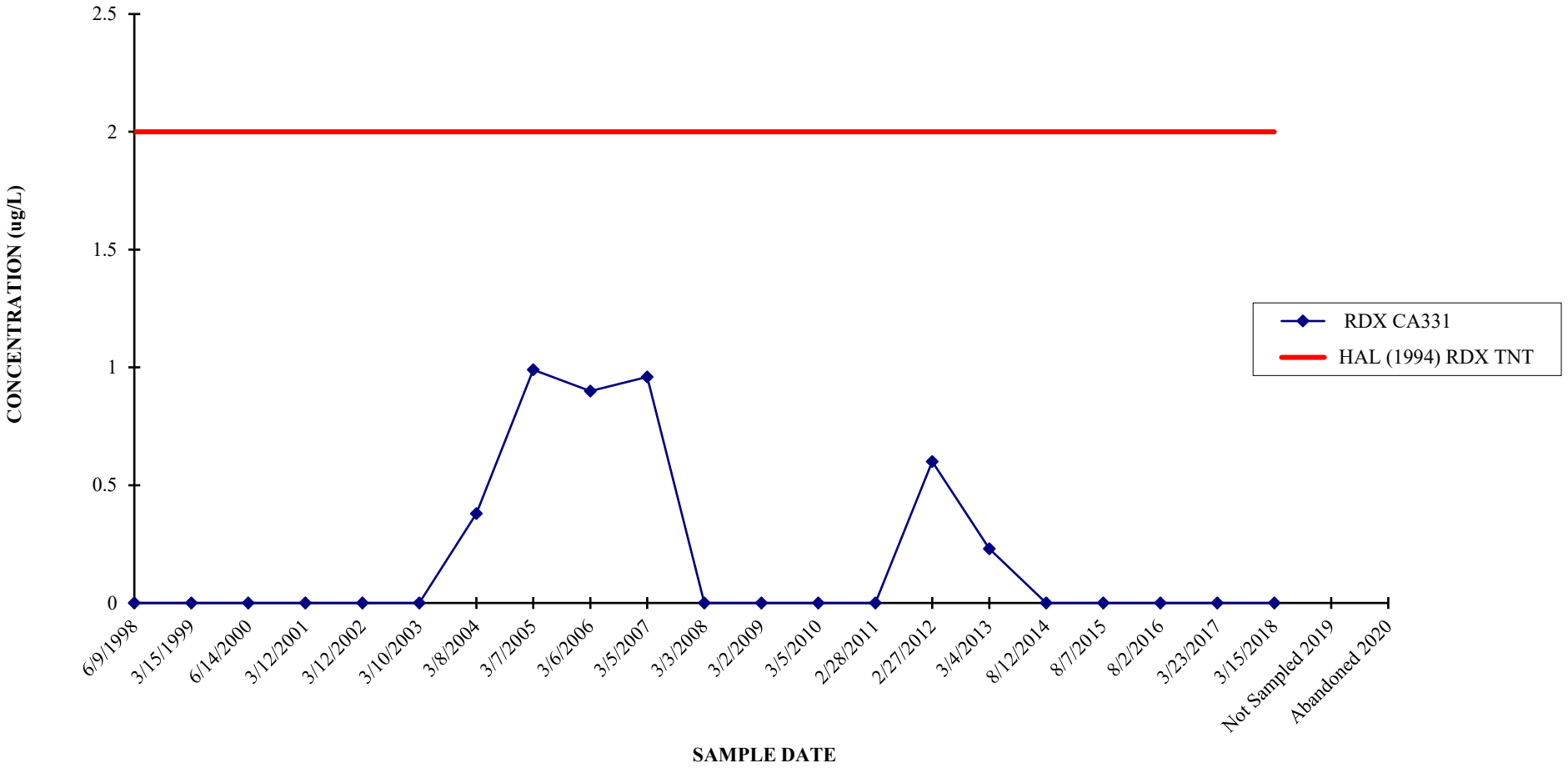
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA312 - HMX AND RDX



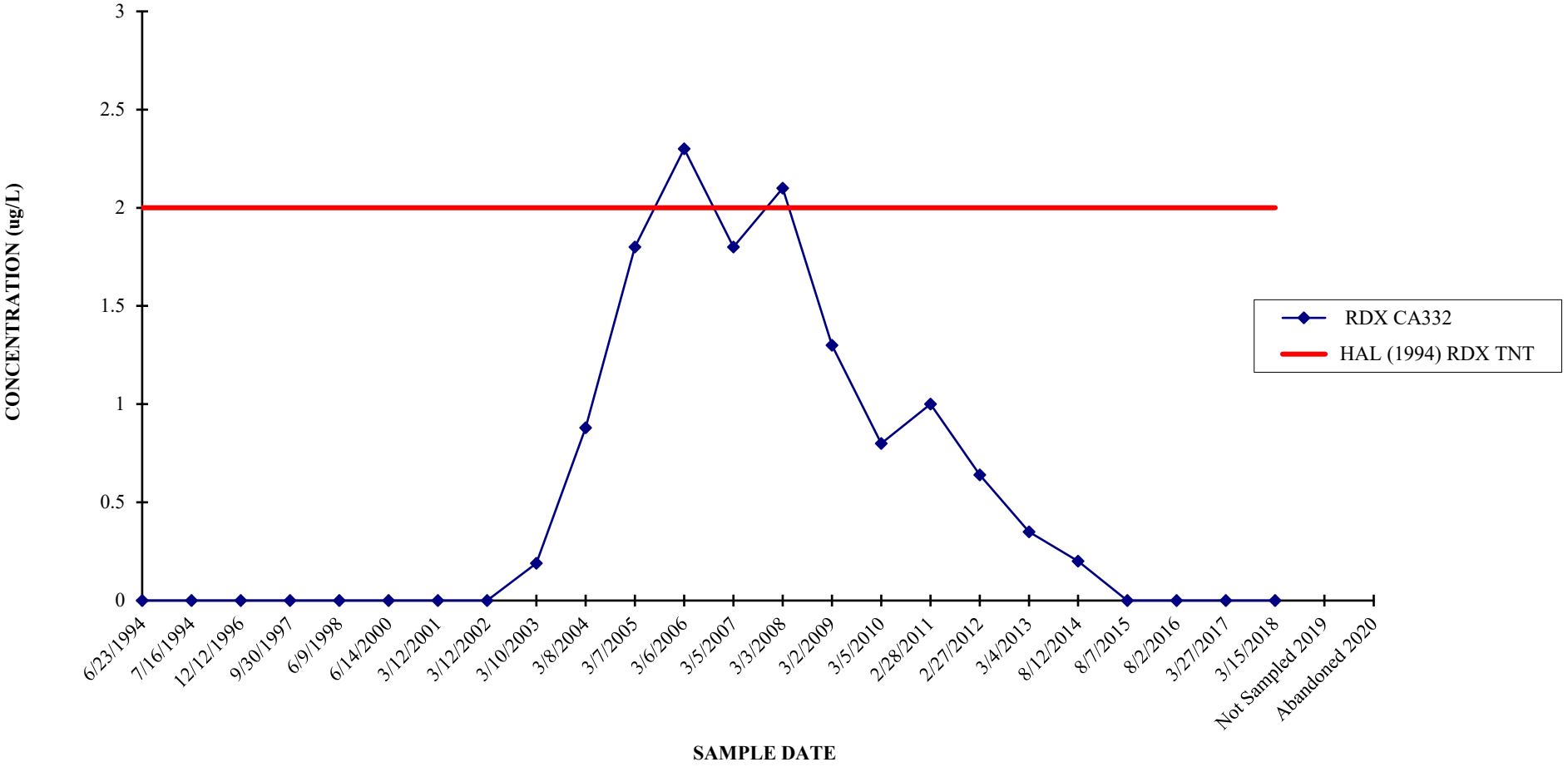
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA322 - HMX



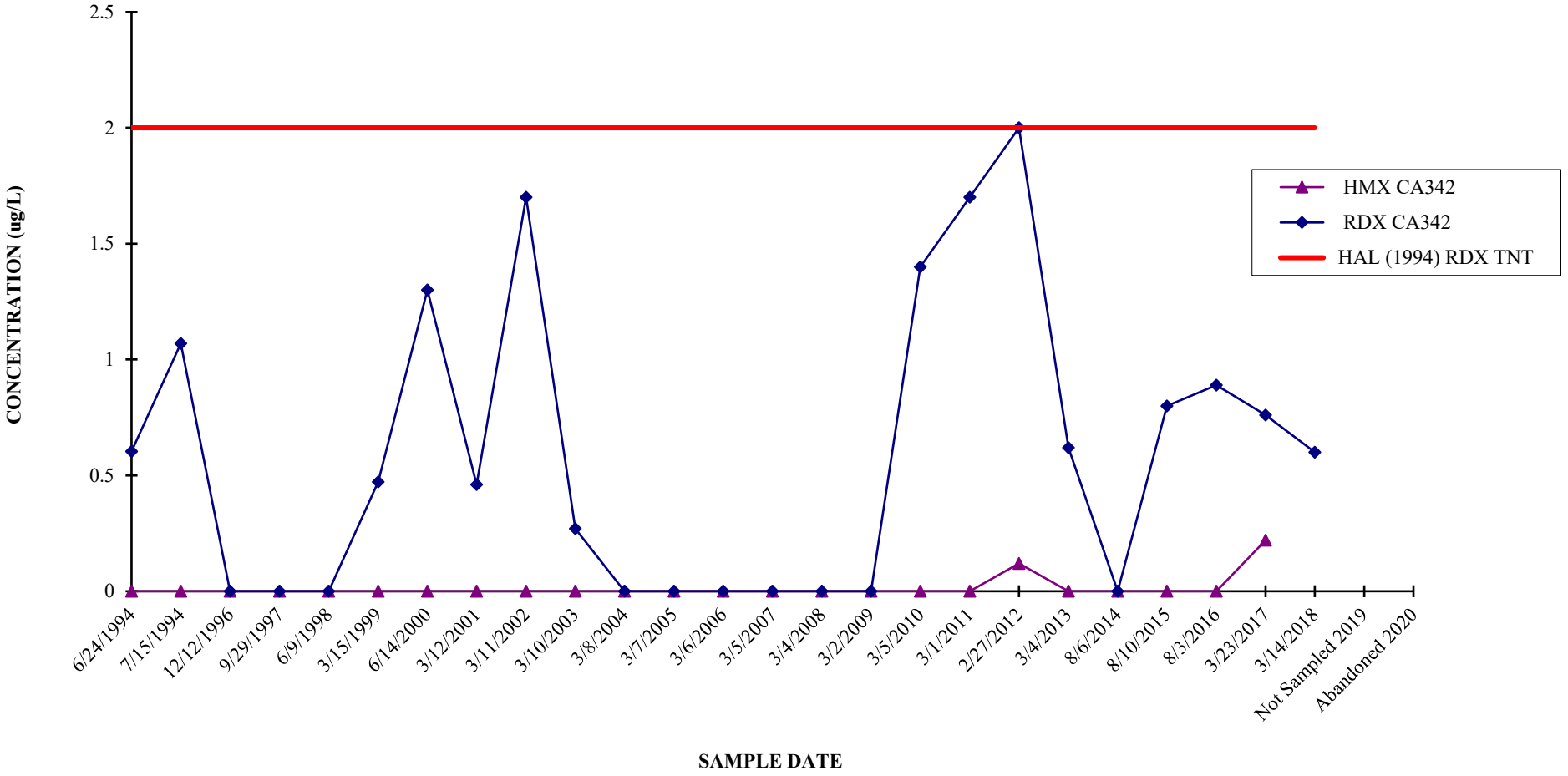
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA331 - RDX



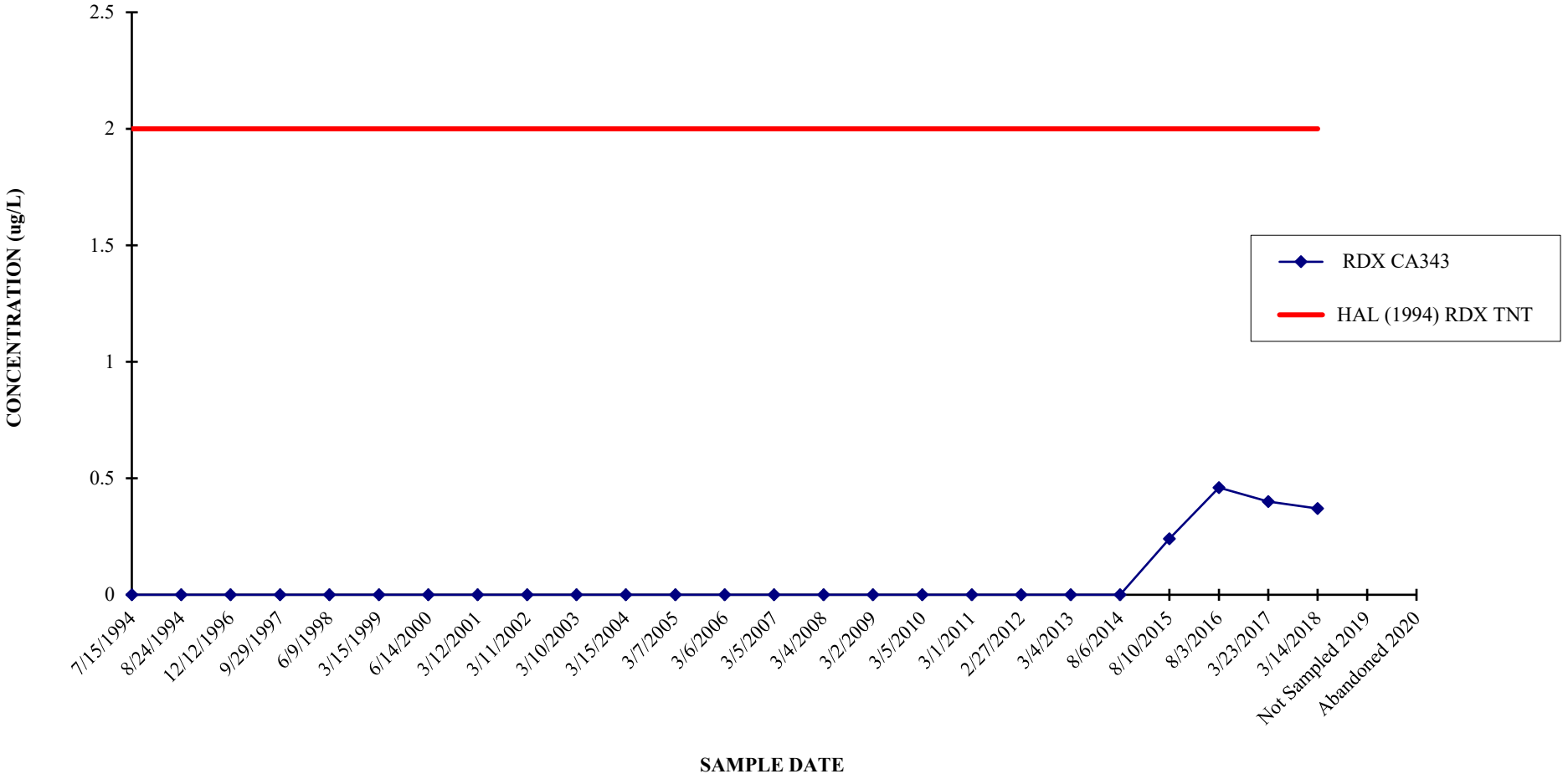
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA332 - RDX



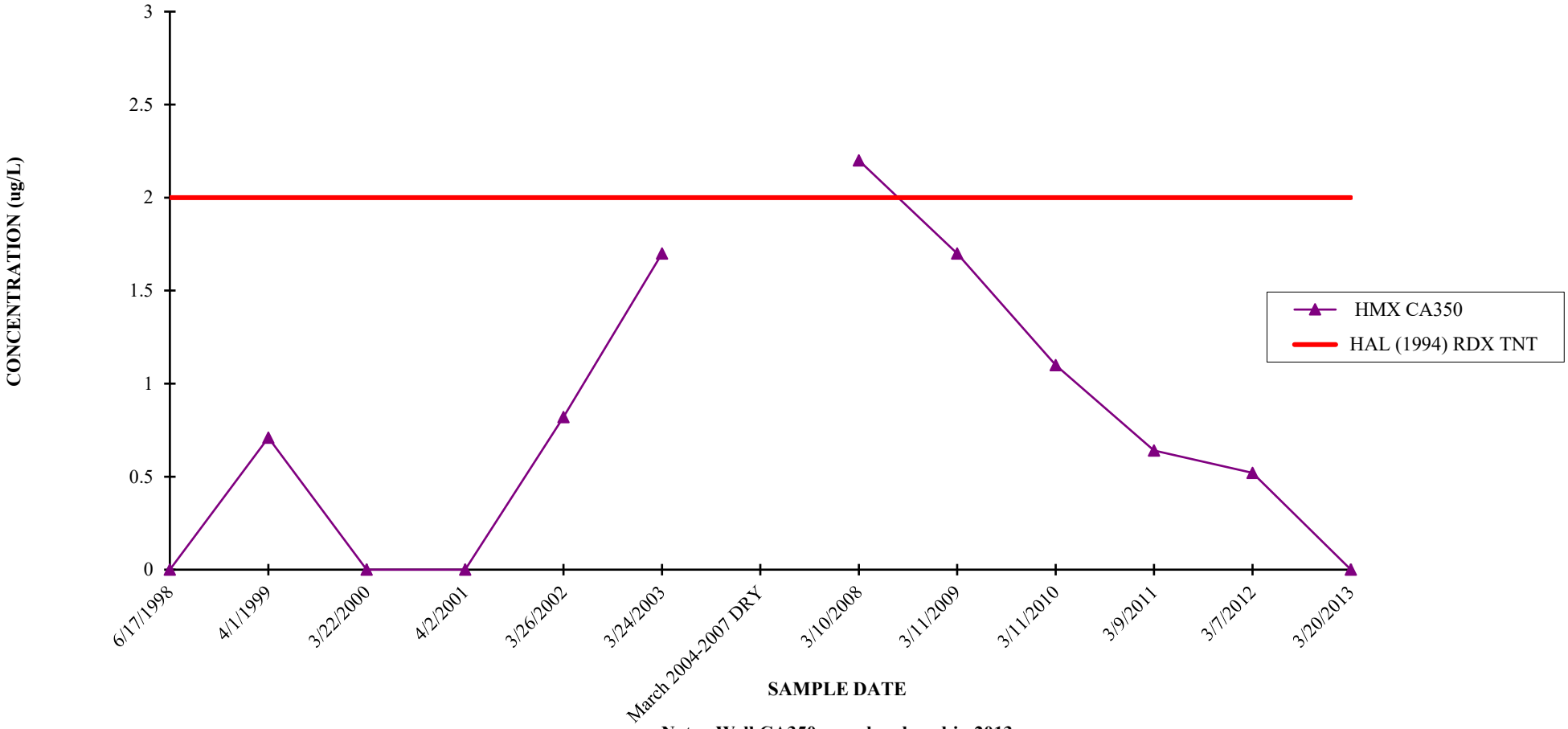
CORNHUSKER ARMY AMMUNITION PLANT
WELL CA342 - HMX AND RDX



CORNHUSKER ARMY AMMUNITION PLANT
WELL CA343 - HMX AND RDX

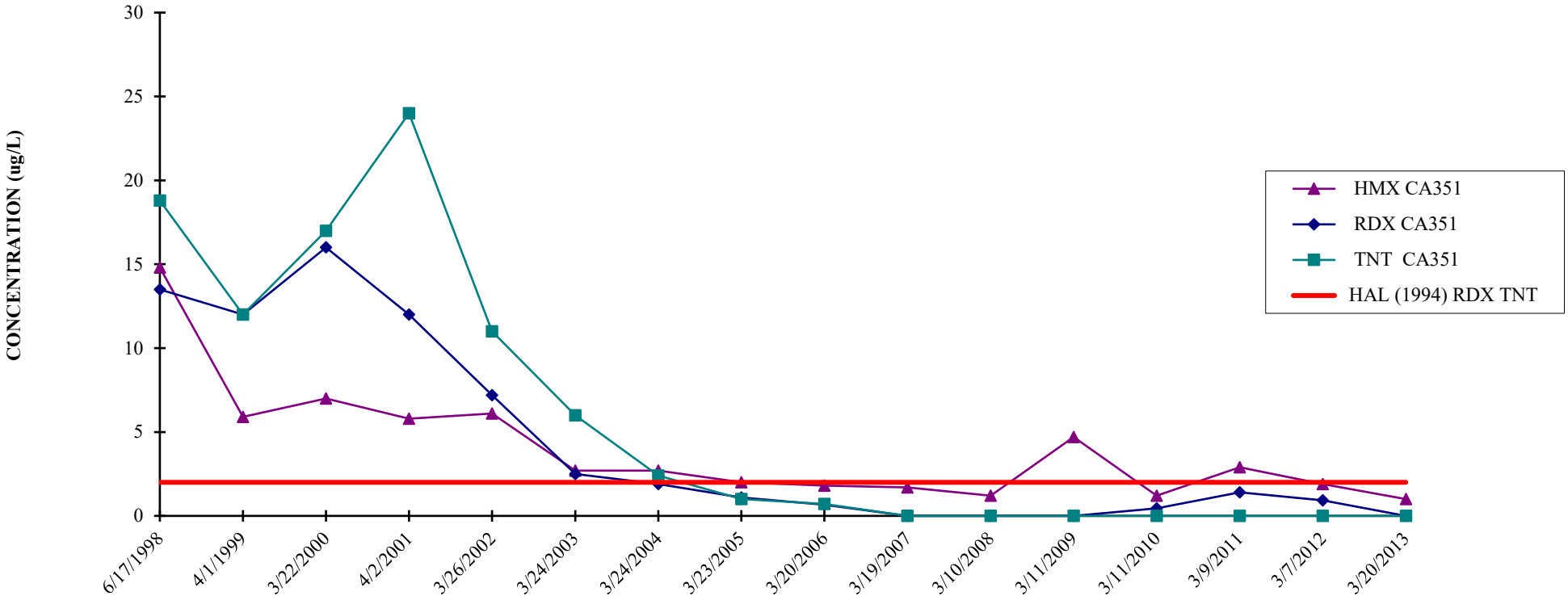


CORNHUSKER ARMY AMMUNITION PLANT
WELL CA350 - HMX



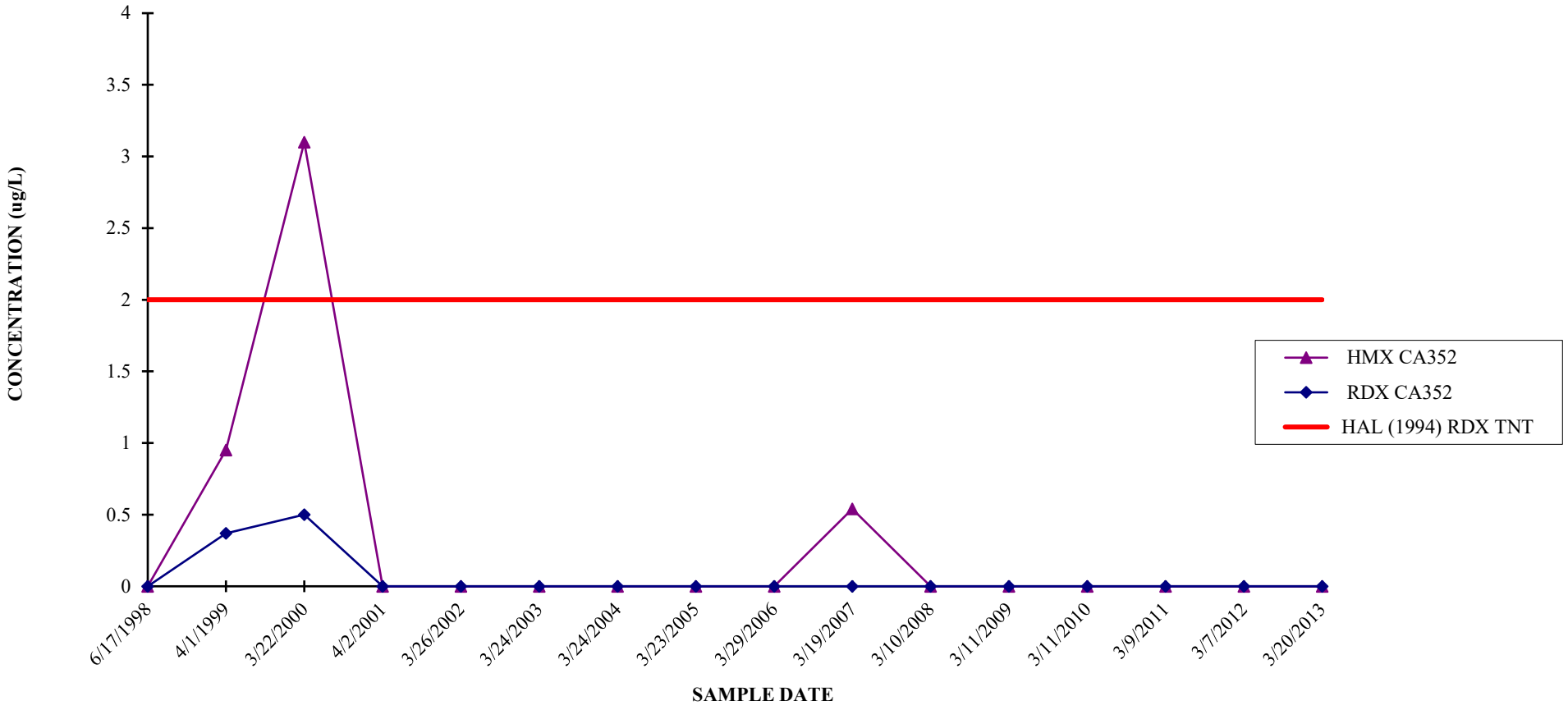
Note: Well CA350 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA351 - HMX, RDX, AND TNT



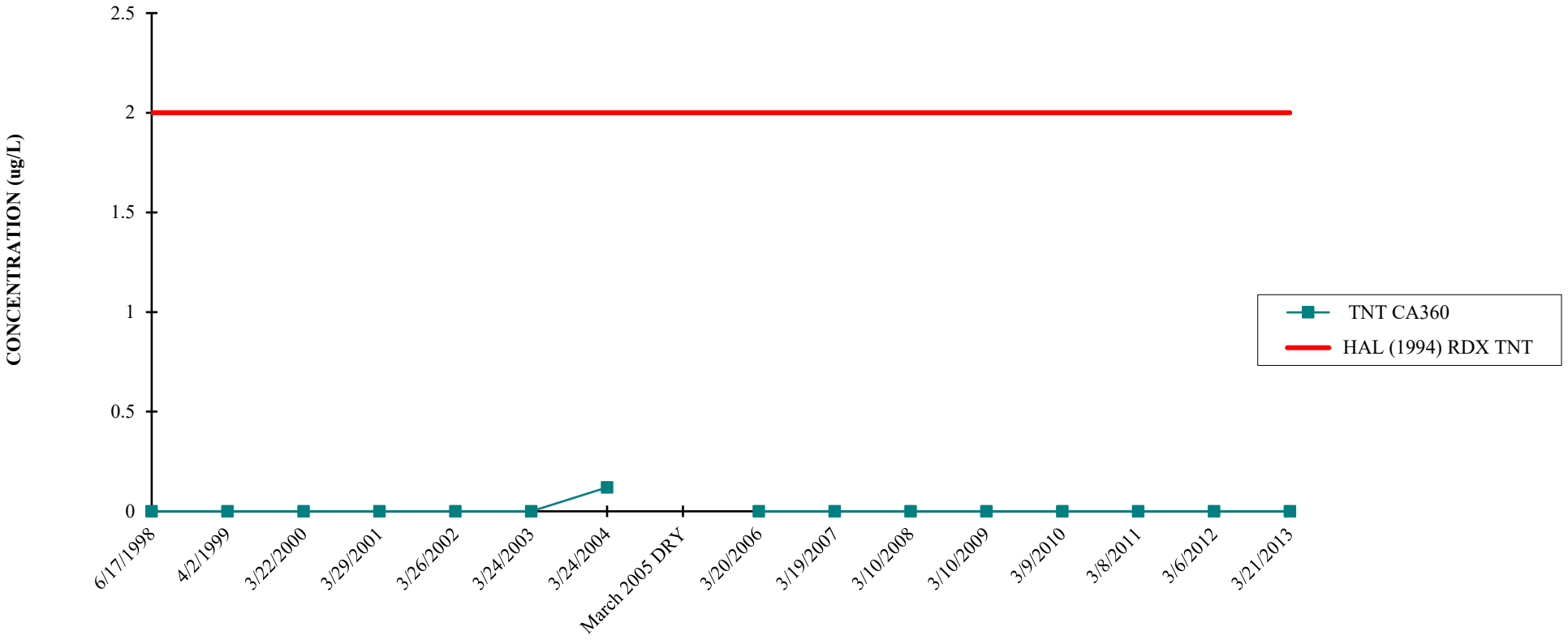
Note: Well CA351 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA352 - HMX AND RDX



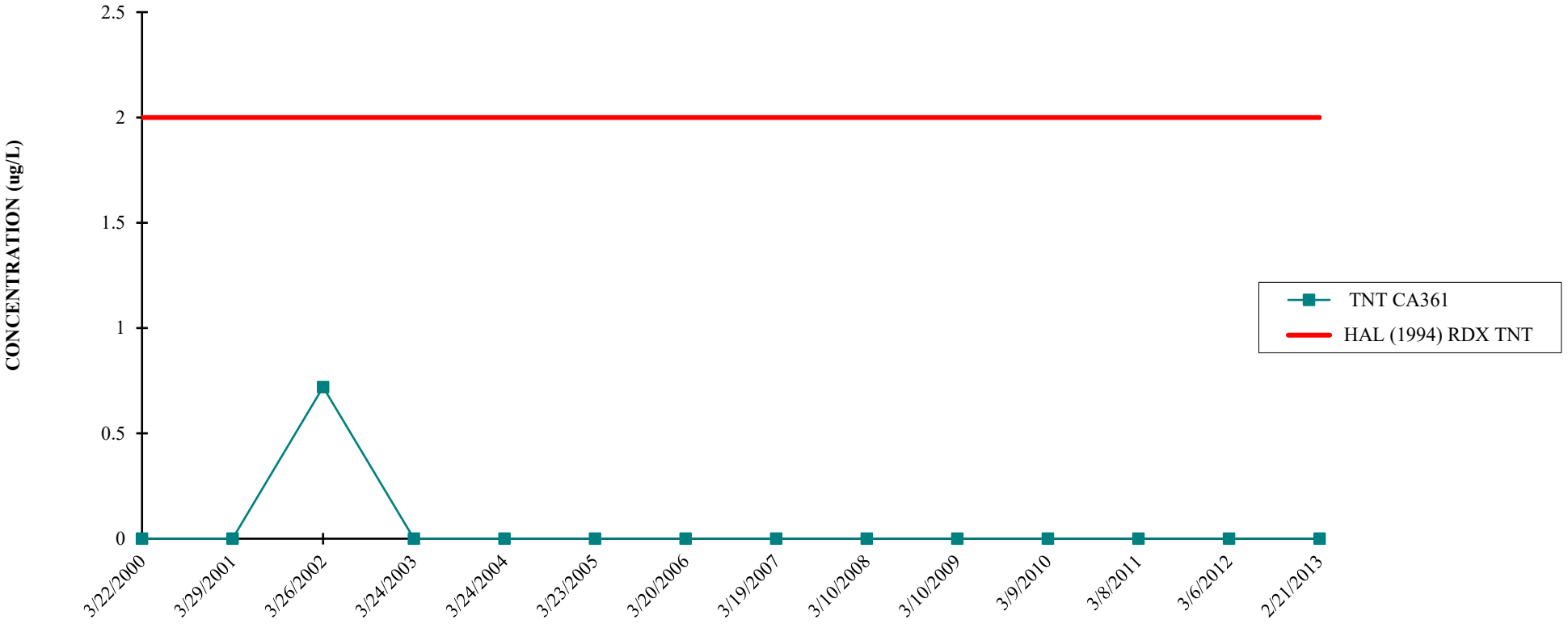
Note: Well CA352 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA360 - TNT



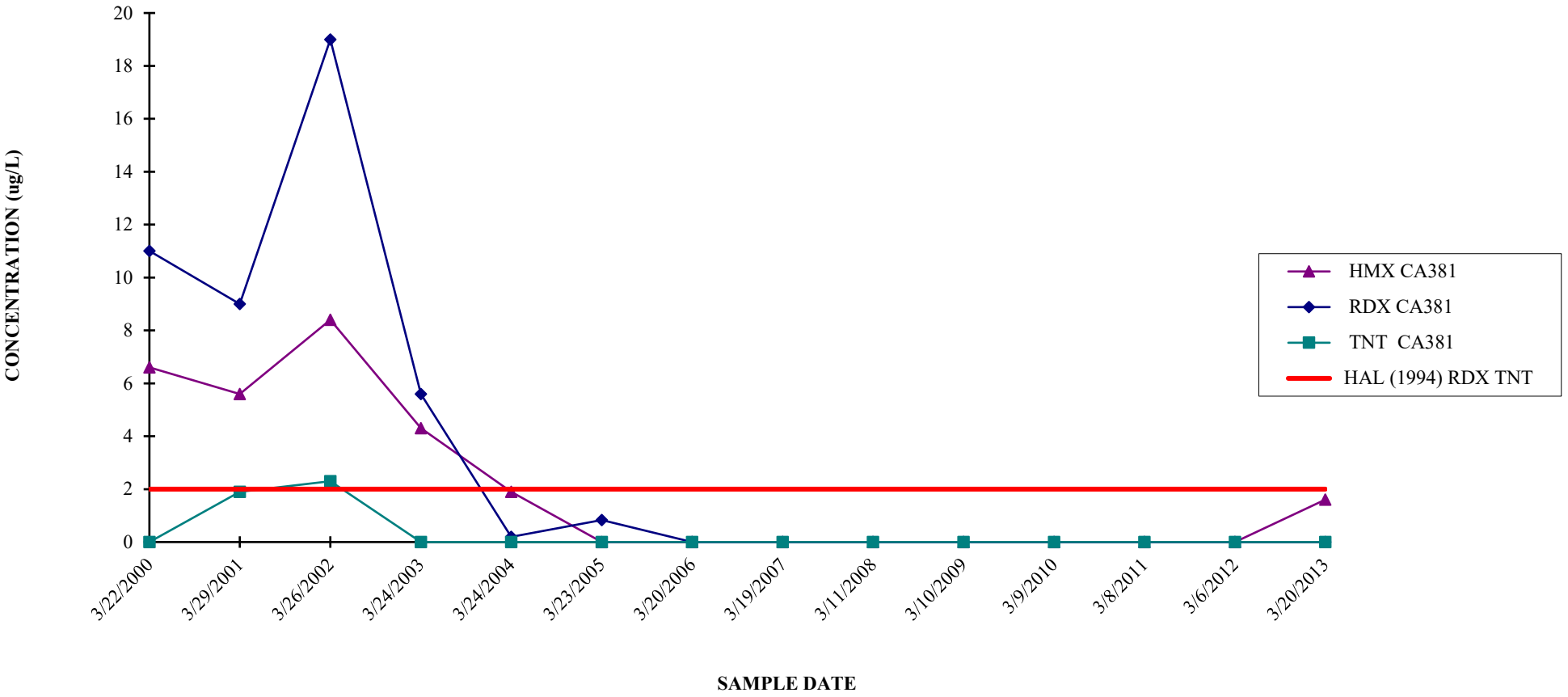
Note: Well CA360 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA361 - TNT



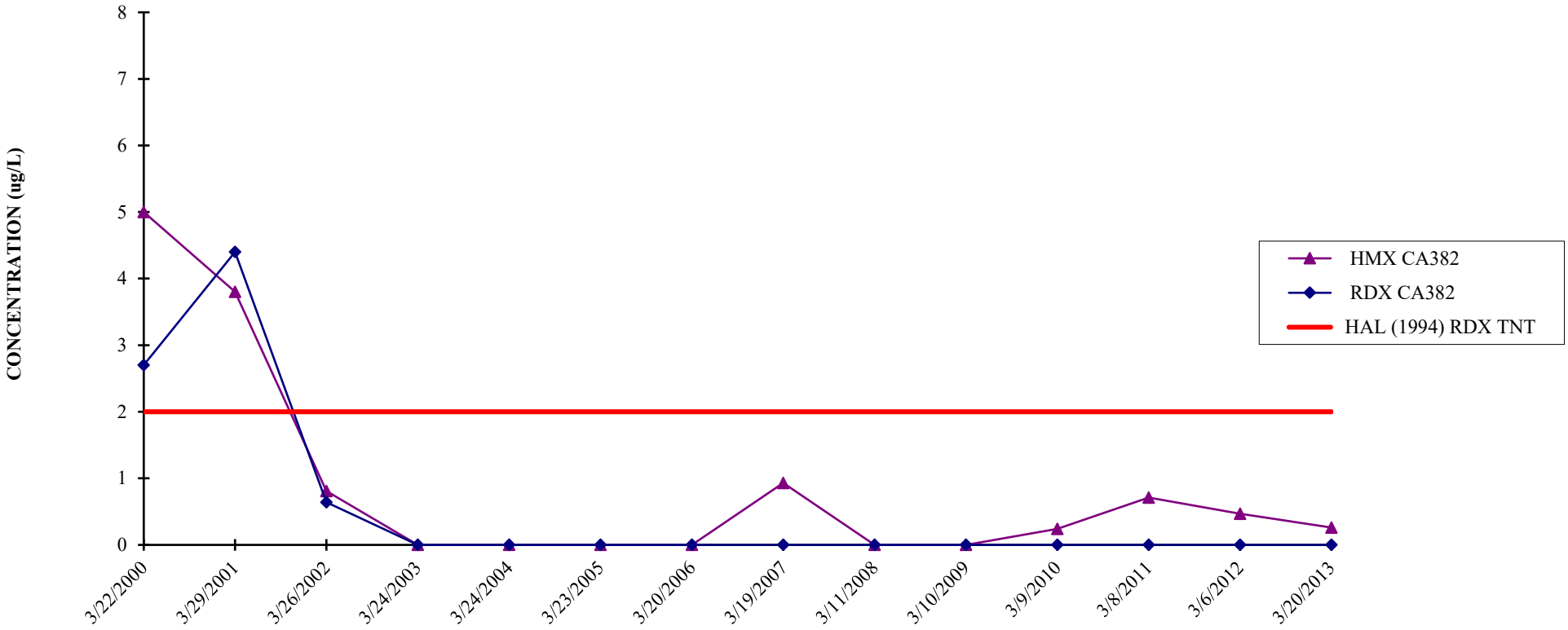
Note: Well CA361 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA381 - HMX, RDX, AND TNT



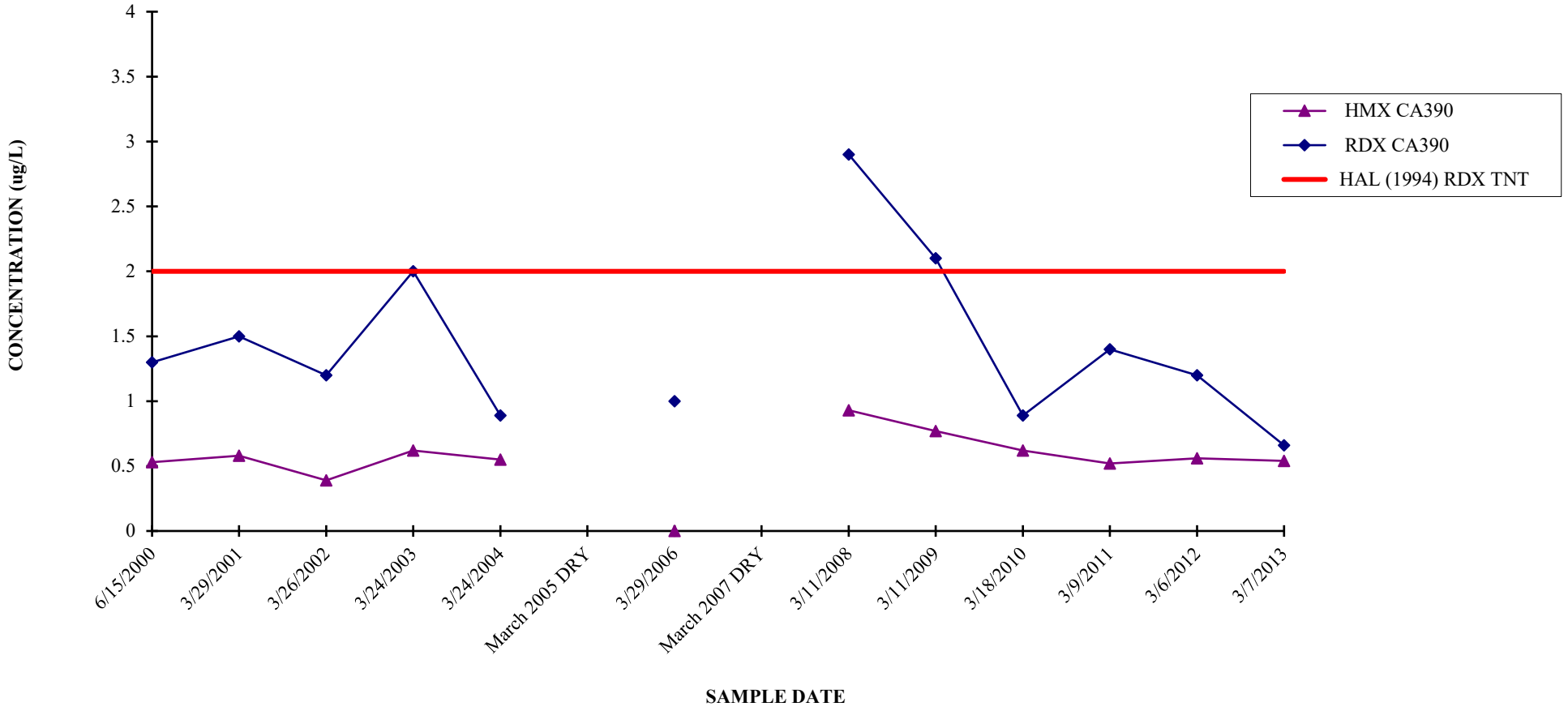
Note: Well CA381 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA382 - HMX AND RDX



Note: Well CA382 was abandoned in 2013

CORNHUSKER ARMY AMMUNITION PLANT
WELL CA390 - HMX AND RDX



Note: Well CA390 was abandoned in 2013

E.4 OU3 Shop Area (Explosives, VOCs, TPHs, and Natural Attenuation Parameters)

(on enclosed CD)

E.4 OU3 Shop Area (Explosives, VOCs, TPHs, and Natural Attenuation Parameters)

WELL	TABLE
G0069	E.4-1
G0069	E.4-2
SAMW1	E.4-3
SHGW02	E.4-4
SHGW03	E.4-5
SHGW04	E.4-6
WB10 (Shop Area Well 003)	E.4-7

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053								G0053							
METHOD	Maximum	Detection	8260B								8260B							
COLLECT DATE	Detection	Frequency	None			6/6/2019					None			8/15/2016				
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																		
1,1,1-Trichloroethane	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	U	0.21	0.8	1				<	0.2	0.8	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	2 / 13				0.53	J	0.18	0.4	3				<	0.79	1.6	3	U
1,1,2-Trichloroethane	-	0 / 15				<	U	0.27	0.8	1				<	0.32	0.8	1	U
1,1-Dichloroethane	-	0 / 15				<	U	0.22	0.8	1				<	0.16	0.8	1	U
1,1-Dichloroethene	-	0 / 15				<	U	0.23	0.8	1				<	0.14	0.8	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	U	0.21	0.8	1				<	0.18	0.8	1	U
1,2,4-Trichlorobenzene	-	0 / 13				<	U	0.21	0.8	1				<	0.32	0.8	1	U
1,2-Dibromo-3-chloropropane	-	0 / 13				<	U	0.47	1.6	5				<	0.81	1.6	5	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	U	0.18	0.4	1				<	0.18	0.4	1	U
1,2-Dichlorobenzene	-	0 / 13				<	U	0.15	0.4	1				<	0.13	0.4	1	U
1,2-Dichloroethane	-	0 / 15	**Not Sampled**			<	U	0.13	0.4	1	**Not Sampled**			<	0.13	0.4	1	U
1,2-Dichloropropane	-	0 / 15	**in 2020, 2021**			<	U	0.18	0.4	1	**in 2017, 2018**			<	0.13	0.4	1	U
1,3-Dichlorobenzene	-	0 / 13				<	U	0.13	0.4	1				<	0.16	0.4	1	U
1,4-Dichlorobenzene	-	0 / 13				<	U	0.16	0.4	1				<	0.16	0.4	1	U
2-Butanone	-	0 / 15				<	U	2	4	6				<	1.8	4	6	U
2-Hexanone	-	0 / 15				<	U	1.7	4	5				<	1.4	4	5	U
4-Methyl-2-pentanone	-	0 / 15				<	U	0.98	3.2	5				<	1	3.2	5	U
Acetone	-	0 / 14				<	U	1.9	6.4	10				<	1.9	6.4	10	U
Benzene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Bromochloromethane	-	0 / 4				<	U	0.1	0.2	1				<	0.1	0.2	1	U
Bromodichloromethane	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Bromoform	-	0 / 15				<	U	0.46	1	1				<	0.19	0.4	1	U
Bromomethane	-	0 / 15				<	U	0.21	0.8	2				<	0.21	0.8	2	U
Carbon Disulfide	-	0 / 14				<	U	0.17	0.8	2				<	0.45	1.6	2	U
Carbon Tetrachloride	-	0 / 15				<	U	0.19	0.4	2				<	0.19	0.4	2	U
Chlorobenzene	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Chloroethane	-	0 / 15				<	U	0.41	1.6	2				<	0.41	1.6	2	U
Chloroform	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Chloromethane	-	0 / 15				<	U	0.3	0.8	2				<	0.3	0.8	2	U
cis-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1				<	0.15	0.4	1	U
cis-1,3-Dichloropropene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053									G0053							
METHOD	Maximum	Detection	8260B									8260B							
COLLECT DATE	Detection	Frequency	None					6/6/2019				None					8/15/2016		
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ		Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Qual
Cyclohexane	-	0 / 13				<	U	0.28	0.8	2					<	U	0.28	0.8	2	U
Dibromochloromethane	-	0 / 15				<	U	0.17	0.4	1					<	U	0.17	0.4	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	U	0.31	0.8	2					<	U	0.31	0.8	2	U
Ethylbenzene	-	0 / 15				<	U	0.16	0.4	1					<	U	0.16	0.4	1	U
Isopropylbenzene	-	0 / 13				<	U	0.19	0.4	1					<	U	0.19	0.4	1	U
Methyl Acetate	-	0 / 13				<	U	1.6	4	5					<	U	1.6	4	5	U
Methylcyclohexane	-	0 / 13				<	U	0.1	0.4	2					<	U	0.25	0.8	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	U	0.25	0.8	5					<	U	0.36	0.8	2	U
Methylene Chloride	-	0 / 15				<	U	0.94	2	5					<	U	0.32	0.8	5	U
Styrene	-	0 / 15	**Not Sampled**			<	U	0.36	0.8	1		**Not Sampled**			<	U	0.17	0.4	1	U
Tetrachloroethene	-	0 / 15	**in 2020, 2021**			<	U	0.2	0.4	1		**in 2017, 2018**			<	U	0.2	0.4	1	U
Toluene	-	0 / 15				<	U	0.17	0.4	1					<	U	0.17	0.4	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1					<	U	0.15	0.4	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	U	0.19	0.4	1					<	U	0.19	0.4	1	U
Trichloroethene	-	0 / 13				<	U	0.16	0.4	1					<	U	0.16	0.4	1	U
Trichlorofluoromethane	-	0 / 13				<	U	0.29	0.8	2					<	U	0.29	0.8	2	U
Vinyl Chloride	1.2	1 / 15				<	U	0.1	0.2	1.5					<	U	0.19	0.8	2	U
Xylenes (total)	-	0 / 13				<	U	0.19	0.8	1					<	U	0.19	0.8	2	U
2-Chloroethyl Vinyl Ether	-	0 / 2						NA									NA			
Bromoethane	-	0 / 2						NA									NA			
m,p-Xylene	-	0 / 2						NA									NA			
O-Xylene	-	0 / 2						NA									NA			
Vinyl Acetate	-	0 / 2						NA									NA			
NATURAL ATTENUATION PARAMETERS																			
Methane RSK-175 (µg/L)						<	U	0.63	2	5					<	U	0.22	0.8	5	U
Ethane RSK-175 (µg/L)			**Not Sampled**			<	U	0.57	1.5	5		**Not Sampled**			<	U	0.57	1.5	5	U
Ethene RSK-175 (µg/L)			**in 2020, 2021**			<	U	0.4	1.4	5		**in 2017, 2018**			<	U	0.4	1.4	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						16		0.038	0.1	0.2					12		0.1	0.25	0.5	
Alkalinity SM 2320B (mg/L)						76		3.1	10	10					83		1.1	3.2	5	
Sulfate USEPA 300.1 (mg/L)						27		1	3	5					18		0.23	0.5	5	J

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053					G0053						G0053				
METHOD	Maximum	Detection	8260B					8260B						8260B				
COLLECT DATE	Detection	Frequency	None					6/6/2019						8/15/2016				
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	2 / 13				1.2	1		<	1	U				<	3	U	<	1	U
1,1,2-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1-Dichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	2	U	<	2	U					NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dibromo-3-chloropropane	-	0 / 13				<	2	U	<	2	U				<	5	U	<	1	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dichloroethane	-	0 / 15	**Not Sampled**			<	0.5	U	<	0.5	U	**Not Sampled**			<	1	U	<	1	U
1,2-Dichloropropane	-	0 / 15	**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	1	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13				<	2	U	<	2	U				<	1	U	<	1	U
1,4-Dichlorobenzene	-	0 / 13				<	3	U	<	3	U				<	1	U	<	1	U
2-Butanone	-	0 / 15				<	4	U	<	4	U				<	6	U	<	1	U
2-Hexanone	-	0 / 15				<	4	U	<	4	U				<	5	U	<	5	U
4-Methyl-2-pentanone	-	0 / 15				<	4	U	<	4	U				<	5	U	<	5	U
Acetone	-	0 / 14				<	10	U	<	10	U				<	10	U	<	5	U
Benzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Bromochloromethane	-	0 / 4				<	1	U	<	1	U					NA			NA	
Bromodichloromethane	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Bromoform	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Bromomethane	-	0 / 15				<	1	U	<	1	U				<	2	U	<	1	U
Carbon Disulfide	-	0 / 14				<	1	U	<	1	U				<	2	U	<	1	U
Carbon Tetrachloride	-	0 / 15				<	0.5	U	<	0.5	U				<	2	U	<	1	U
Chlorobenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Chloroethane	-	0 / 15				<	2	U	<	1.4	U				<	2	U	<	1	U
Chloroform	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Chloromethane	-	0 / 15				<	1	U	<	1	U				<	2	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
cis-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	1	U
Dibromochloromethane	-	0 / 15				<	0.26	U	<	0.26	U				<	1	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	1.2	U	<	1.2	U				<	2	U	<	1	U
Ethylbenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Isopropylbenzene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Methyl Acetate	-	0 / 13				<	1	U	<	1	U				<	5	U	<	2	U
Methylcyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	1	U	<	1	U				<	5	U	<	5	U
Methylene Chloride	-	0 / 15				<	5	U	<	1	U				<	5	U	<	1	U
Styrene	-	0 / 15	**Not Sampled**			<	1	U	<	1	U	**Not Sampled**			<	1	U	<	1	U
Tetrachloroethene	-	0 / 15	**in 2014, 2015**			<	0.5	U	<	0.5	U	**in 2011**			<	1	U	<	1	U
Toluene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	0.66	U	<	0.66	U				<	1	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Trichloroethene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Trichlorofluoromethane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	1	U
Vinyl Chloride	1.2	1 / 15				<	1	U	1.2	1					<	1.5	U	<	1	U
Xylenes (total)	-	0 / 13					NA			NA					<	1	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2					NA			NA						NA		<	5	U
Bromoethane	-	0 / 2					NA			NA						NA		<	1	U
m,p-Xylene	-	0 / 2				<	0.46	U	<	0.46	U					NA			NA	
O-Xylene	-	0 / 2				<	1	U	<	5	U					NA			NA	
Vinyl Acetate	-	0 / 2					NA			NA						NA		<	1	U
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)						59	5		1200	50					79	5		<	0.31	U
Ethane RSK-175 (µg/L)			**Not Sampled**			<	1.2	U	<	1.2	U	**Not Sampled**			<	5	U	<	0.61	U
Ethene RSK-175 (µg/L)			**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	5	U	<	0.76	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						5.46	0.1		6.8	0.1					9.8	0.1		4.6	0.25	
Alkalinity SM 2320B (mg/L)						140	1.25		130	1.25					110	5		120	20	
Sulfate USEPA 300.1 (mg/L)						22.7	1		20	1					16	5		20	2	

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/12/2008			3/20/2007			3/29/2006			3/23/2005			3/24/2004			3/25/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	2 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1,2-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1-Dichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dibromo-3-chloropropane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dibromoethane (EDB)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dichloropropane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,3-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,4-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
2-Butanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
2-Hexanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
4-Methyl-2-pentanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
Acetone	-	0 / 14	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
Benzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Bromochloromethane	-	0 / 4		NA			NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Bromoform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Bromomethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	UJ
Carbon Disulfide	-	0 / 14	<	1	U	<	1	U	<	1	U	<	3	U	<	2	U	<	2.0	U
Carbon Tetrachloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chlorobenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chloroform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
cis-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
cis-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/12/2008			3/20/2007			3/29/2006			3/23/2005			3/24/2004			3/25/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Dibromochloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Ethylbenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Isopropylbenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Methyl Acetate	-	0 / 13	<	5	U	<	5	U	<	5	U	<	1	U	<	1	U	<	1.0	U
Methylcyclohexane	-	0 / 13	<	5	U	<	5	U	<	5	U	<	1	U	<	1	U	<	1.0	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Methylene Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Styrene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Tetrachloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Toluene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
trans-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
trans-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Trichloroethene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Trichlorofluoromethane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Vinyl Chloride	1.2	1 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Xylenes (total)	-	0 / 13	<	2	U	<	2	U	<	2	U	<	1	U	<	1	U	<	1.0	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA			NA			NA			NA			NA			NA	
Bromoethane	-	0 / 2		NA			NA			NA			NA			NA			NA	
m,p-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA			NA			NA			NA			NA			NA	
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)			<	1.7	U	<	0.87	U	<	0.87	U	<	2	U	<	2	U		NA	
Ethane RSK-175 (µg/L)			110	2		<	3.5	U	1.8	3.5	J	<	4	U	<	4	U		NA	
Ethene RSK-175 (µg/L)			22	10		<	1.8	U	<	1.8	U	<	3	U	<	3	U		NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			<	3.5	U	9.2	1		6.2	0.25		11	1		15	1		12	NA	
Alkalinity SM 2320B (mg/L)			<	1.8	U	120	8		94	8		170	5		160	5		180	0.5	
Sulfate USEPA 300.1 (mg/L)			6.7	0.5		20	10		19	10		22	2		32	2		33	5.0	

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/12/2008			3/20/2007			3/29/2006			3/23/2005			3/24/2004			3/25/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)											
1,1,1-Trichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	2 / 13	<	1.0	U		NA			NA	
1,1,2-Trichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dibromo-3-chloropropane	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dibromoethane (EDB)	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,2-Dichloropropane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,4-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
2-Butanone	-	0 / 15	<	5.0	U	<	50	U	<	20	U
2-Hexanone	-	0 / 15	<	5.0	U	<	50	U	<	20	U
4-Methyl-2-pentanone	-	0 / 15	<	5.0	U	<	50	U	<	10	U
Acetone	-	0 / 14	<	5.0	UJ	<	50	U			R
Benzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromochloromethane	-	0 / 4		NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromoform	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromomethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Carbon Disulfide	-	0 / 14	<	5.0	U		NA		<	1	U
Carbon Tetrachloride	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chlorobenzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloroform	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
cis-1,3-Dichloropropene	-	0 / 15	<	1.0	U	<	5	U	<	1	U

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 13	<	1.0	U		NA			NA	
Dibromochloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1.0	U		NA			NA	
Ethylbenzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Isopropylbenzene	-	0 / 13	<	1.0	U		NA			NA	
Methyl Acetate	-	0 / 13	<	1.0	U		NA			NA	
Methylcyclohexane	-	0 / 13	<	1.0	U		NA			NA	
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1.0	U		NA			NA	
Methylene Chloride	-	0 / 15	<	1.0	U	<	10	U	<	1	U
Styrene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Tetrachloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Toluene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Trichloroethene	-	0 / 13	<	1.0	U		NA			NA	
Trichlorofluoromethane	-	0 / 13	<	1.0	U		NA			NA	
Vinyl Chloride	1.2	1 / 15	<	1.0	U	<	5	U	<	1	U
Xylenes (total)	-	0 / 13	<	1.0	U	<	5	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA		<	5	U		NA	
Bromoethane	-	0 / 2		NA			NA		<	1	U
m,p-Xylene	-	0 / 2		NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA		<	5	U		NA	
NATURAL ATTENUATION PARAMETERS											
Methane RSK-175 (µg/L)				NA			NA			NA	
Ethane RSK-175 (µg/L)				NA			NA			NA	
Ethene RSK-175 (µg/L)				NA			NA			NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			6.34	NA		5.11	0.5		2.95	0.5	
Alkalinity SM 2320B (mg/L)			130	0.20		134	5.0		104	5.0	
Sulfate USEPA 300.1 (mg/L)			22	5.0		44.9	5.0		13.6	5.0	

TABLE E.4-1
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0053-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0053			G0053			G0053		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069								G0069							
METHOD	Maximum	Detection	8260B								8260B							
COLLECT DATE	Detection	Frequency	None								None							
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																		
1,1,1-Trichloroethane	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	U	0.21	0.8	1				<	0.2	0.8	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.56 J	1 / 13				<	U	0.18	0.4	3				<	0.79	1.6	3	U
1,1,2-Trichloroethane	-	0 / 15				<	U	0.27	0.8	1				<	0.32	0.8	1	U
1,1-Dichloroethane	-	0 / 15				<	U	0.22	0.8	1				<	0.16	0.8	1	U
1,1-Dichloroethene	-	0 / 15				<	U	0.23	0.8	1				<	0.14	0.8	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	U	0.21	0.8	1				<	0.18	0.8	1	U
1,2,4-Trichlorobenzene	-	0 / 13				<	U	0.21	0.8	1				<	0.32	0.8	1	U
1,2-Dibromo-3-chloropropane	23	1 / 13				<	U	0.47	1.6	5				<	0.81	1.6	5	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	U	0.18	0.4	1				<	0.18	0.4	1	U
1,2-Dichlorobenzene	-	0 / 13				<	U	0.15	0.4	1				<	0.13	0.4	1	U
1,2-Dichloroethane	1.7	2 / 15	**Not Sampled**			<	U	0.13	0.4	1	**Not Sampled**			<	0.13	0.4	1	U
1,2-Dichloropropane	-	0 / 15	**in 2020, 2021**			<	U	0.18	0.4	1	**in 2017, 2018**			<	0.13	0.4	1	U
1,3-Dichlorobenzene	-	0 / 13				<	U	0.13	0.4	1				<	0.16	0.4	1	U
1,4-Dichlorobenzene	-	0 / 13				<	U	0.16	0.4	1				<	0.16	0.4	1	U
2-Butanone	-	0 / 15				<	U	2	4	6				<	1.8	4	6	U
2-Hexanone	-	0 / 15				<	U	1.7	4	5				<	1.4	4	5	U
4-Methyl-2-pentanone	-	0 / 15				<	U	0.98	3.2	5				<	1	3.2	5	U
Acetone	-	0 / 14				<	U	1.9	6.4	10				<	1.9	6.4	10	U
Benzene	0.26 J	1 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Bromochloromethane	-	0 / 4				<	U	0.1	0.2	1				<	0.1	0.2	1	U
Bromodichloromethane	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Bromoform	-	0 / 15				<	U	0.46	1	1				<	0.19	0.4	1	U
Bromomethane	-	0 / 15				<	U	0.21	0.8	2				<	0.21	0.8	2	U
Carbon Disulfide	-	0 / 14				<	U	0.17	0.8	2				<	0.45	1.6	2	U
Carbon Tetrachloride	-	0 / 15				<	U	0.19	0.4	2				<	0.19	0.4	2	U
Chlorobenzene	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Chloroethane	-	0 / 15				<	U	0.41	1.6	2				<	0.41	1.6	2	U
Chloroform	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069									G0069						
METHOD	Maximum	Detection	8260B									8260B						
COLLECT DATE	Detection	Frequency	None			6/6/2019						None			8/15/2016			
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ		Result	RL	Qual	Result	DL	LOD	LOQ	Qual
Chloromethane	-	0 / 15				<	U	0.3	0.8	2					<	0.3	0.8	2	U
cis-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1					<	0.15	0.4	1	U
cis-1,3-Dichloropropene	-	0 / 15				<	U	0.16	0.4	1					<	0.16	0.4	1	U
Cyclohexane	-	0 / 13				<	U	0.28	0.8	2					<	0.28	0.8	2	U
Dibromochloromethane	-	0 / 15				<	U	0.17	0.4	1					<	0.17	0.4	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	U	0.31	0.8	2					<	0.31	0.8	2	U
Ethylbenzene	-	0 / 15				<	U	0.16	0.4	1					<	0.16	0.4	1	U
Isopropylbenzene	-	0 / 13				<	U	0.19	0.4	1					<	0.19	0.4	1	U
Methyl Acetate	-	0 / 13				<	U	1.6	4	5					<	1.6	4	5	U
Methylcyclohexane	-	0 / 13				<	U	0.1	0.4	2					<	0.25	0.8	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	U	0.25	0.8	5					<	0.36	0.8	2	U
Methylene Chloride	-	0 / 15				<	U	0.94	2	5					<	0.32	0.8	5	U
Styrene	-	0 / 15	**Not Sampled**			<	U	0.36	0.8	1		**Not Sampled**			<	0.17	0.4	1	U
Tetrachloroethene	-	0 / 15	**in 2020, 2021**			<	U	0.2	0.4	1		**in 2017, 2018**			<	0.2	0.4	1	U
Toluene	-	0 / 15				<	U	0.17	0.4	1					<	0.17	0.4	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1					<	0.15	0.4	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	U	0.19	0.4	1					<	0.19	0.4	1	U
Trichloroethene	-	0 / 13				<	U	0.16	0.4	1					<	0.16	0.4	1	U
Trichlorofluoromethane	-	0 / 13				<	U	0.29	0.8	2					<	0.29	0.8	2	U
Vinyl Chloride	-	0 / 15				<	U	0.1	0.2	1.5					<	0.19	0.8	2	U
Xylenes (total)	-	0 / 13				<	U	0.19	0.8	1					<	0.19	0.8	2	U
2-Chloroethyl Vinyl Ether	-	0 / 2						NA									NA		
Bromoethane	-	0 / 2						NA									NA		
m,p-Xylene	-	0 / 2						NA									NA		
O-Xylene	-	0 / 2						NA									NA		
Vinyl Acetate	-	0 / 2						NA									NA		
NATURAL ATTENUATION PARAMETERS																			
Methane RSK-175 (µg/L)						<	U	0.63	2	5					180	0.22	0.8	5	
Ethane RSK-175 (µg/L)			**Not Sampled**			<	U	0.57	1.5	5		**Not Sampled**			<	0.57	1.5	5	U
Ethene RSK-175 (µg/L)			**in 2020, 2021**			<	U	0.4	1.4	5		**in 2017, 2018**			<	0.4	1.4	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						1.6		0.019	0.05	0.1					1.1	0.02	0.05	0.1	

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069					G0069			G0069				
METHOD	Maximum	Detection	8260B			8260B					8260B			8260B				
COLLECT DATE	Detection	Frequency	None			6/6/2019					None			8/15/2016				
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
Alkalinity SM 2320B (mg/L)						130		3.1	10	10				150	1.1	3.2	5	
Sulfate USEPA 300.1 (mg/L)						21		1	3	5				24	0.23	0.5	5	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)			**Not Sampled**								**Not Sampled**							
Diesel Range Organics			**in 2020, 2021**			0.091	J	0.031	0.12	0.24	**in 2017, 2018**			0.27	0.03	0.12	0.24	

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.56 J	1 / 13				<	1	U	<	1	U				<	3	U
1,1,2-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U
1,1-Dichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U
1,1-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	2	U	<	2	U					NA	
1,2,4-Trichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U
1,2-Dibromo-3-chloropropane	23	1 / 13				<	2	U	<	2	U				<	5	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	1	U	<	1	U				<	1	U
1,2-Dichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U
1,2-Dichloroethane	1.7	2 / 15	**Not Sampled**			<	0.5	U	<	0.5	U	**Not Sampled**			<	1	U
1,2-Dichloropropane	-	0 / 15	**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	1	U
1,3-Dichlorobenzene	-	0 / 13				<	2	U	<	2	U				<	1	U
1,4-Dichlorobenzene	-	0 / 13				<	3	U	<	3	U				<	1	U
2-Butanone	-	0 / 15				<	4	U	<	4	U				<	6	U
2-Hexanone	-	0 / 15				<	4	U	<	4	U				<	5	U
4-Methyl-2-pentanone	-	0 / 15				<	4	U	<	4	U				<	5	U
Acetone	-	0 / 14				<	10	U	<	10	U				<	10	U
Benzene	0.26 J	1 / 15				<	0.5	U	<	0.5	U				<	1	U
Bromochloromethane	-	0 / 4				<	1	U	<	1	U					NA	
Bromodichloromethane	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U
Bromoform	-	0 / 15				<	1	U	<	1	U				<	1	U
Bromomethane	-	0 / 15				<	1	U	<	1	U				<	2	U
Carbon Disulfide	-	0 / 14				<	1	U	<	1	U				<	2	U
Carbon Tetrachloride	-	0 / 15				<	0.5	U	<	0.5	U				<	2	U
Chlorobenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U
Chloroethane	-	0 / 15				<	2	U	<	1.4	U				<	2	U
Chloroform	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Chloromethane	-	0 / 15				<	1	U	<	1	U				<	2	U
cis-1,2-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U
cis-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U
Cyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U
Dibromochloromethane	-	0 / 15				<	0.26	U	<	0.26	U				<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	1.2	U	<	1.2	U				<	2	U
Ethylbenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U
Isopropylbenzene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U
Methyl Acetate	-	0 / 13				<	1	U	<	1	U				<	5	U
Methylcyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	1	U	<	1	U				<	5	U
Methylene Chloride	-	0 / 15				<	5	U	<	1	U				<	5	U
Styrene	-	0 / 15	**Not Sampled**			<	1	U	<	1	U	**Not Sampled**			<	1	U
Tetrachloroethene	-	0 / 15	**in 2014, 2015**			<	0.5	U	<	0.5	U	**in 2011**			<	1	U
Toluene	-	0 / 15				<	1	U	<	1	U				<	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	0.66	U	<	0.66	U				<	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U
Trichloroethene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U
Trichlorofluoromethane	-	0 / 13				<	1	U	<	1	U				<	2	U
Vinyl Chloride	-	0 / 15				<	1	U	<	1	U				<	1.5	U
Xylenes (total)	-	0 / 13					NA			NA					<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2								NA						NA	
Bromoethane	-	0 / 2								NA						NA	
m,p-Xylene	-	0 / 2				<	0.46	U	<	0.46	U					NA	
O-Xylene	-	0 / 2				<	1	U	<	5	U					NA	
Vinyl Acetate	-	0 / 2								NA						NA	
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)						48	5		<	5	U				16	5	
Ethane RSK-175 (µg/L)			**Not Sampled**			<	1.2	U	<	1.2	U	**Not Sampled**			<	5	U
Ethene RSK-175 (µg/L)			**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						2.86	0.1		0.111	0.1					3.3	0.1	

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Alkalinity SM 2320B (mg/L)						230	1.25		80	1.25					150	5	
Sulfate USEPA 300.1 (mg/L)						29.7	1		37	1					33	5	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)			**Not Sampled**									**Not Sampled**					
Diesel Range Organics			**in 2014, 2015**			0.56	0.15		0.87	0.15		**in 2011**			0.28	0.24	

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/9/2009			3/11/2008			3/20/2007			3/30/2006			3/24/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.56 J	1 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1,2-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1-Dichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dibromo-3-chloropropane	23	1 / 13	<	1	U	<	1	U	<	1		23	1		<	3	U
1,2-Dibromoethane (EDB)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dichloroethane	1.7	2 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dichloropropane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,3-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,4-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
2-Butanone	-	0 / 15	<	1	U	<	5	U	<	5	U	<	5	U	<	10	U
2-Hexanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	5	U	<	10	U
4-Methyl-2-pentanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	5	U	<	10	U
Acetone	-	0 / 14	<	5	U	<	5	U	<	5	U	<	5	U	<	10	U
Benzene	0.26 J	1 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Bromochloromethane	-	0 / 4		NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Bromoform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Bromomethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Carbon Disulfide	-	0 / 14	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Carbon Tetrachloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Chlorobenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Chloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Chloroform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/9/2009			3/11/2008			3/20/2007			3/30/2006			3/24/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Chloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
cis-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
cis-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Cyclohexane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Dibromochloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Ethylbenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Isopropylbenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Methyl Acetate	-	0 / 13	<	2	U	<	5	U	<	5	U	<	5	U	<	3	U
Methylcyclohexane	-	0 / 13	<	5	U	<	5	U	<	5	U	<	5	U	<	3	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	5	U	<	1	U	<	1	U	<	1	U	<	3	U
Methylene Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Styrene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Tetrachloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	UJ
Toluene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
trans-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
trans-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Trichloroethene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Trichlorofluoromethane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Vinyl Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Xylenes (total)	-	0 / 13	<	1	U	<	2	U	<	2	U	<	2	U	<	3	U
2-Chloroethyl Vinyl Ether	-	0 / 2	<	5	U		NA			NA			NA			NA	
Bromoethane	-	0 / 2	<	1	U		NA			NA			NA			NA	
m,p-Xylene	-	0 / 2		NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2	<	1	U		NA			NA			NA			NA	
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)			1.9	0.31		1.5	1.7	J	3.9	0.87		6.8	0.87		16	0.87	
Ethane RSK-175 (µg/L)			<	0.61	U	170	2		3.2	3.5	J	3.3	3.5	J	<	1.7	U
Ethene RSK-175 (µg/L)			<	0.76	U	26	10		<	1.8	U	<	1.8	U	<	1.8	U
Nitrate/Nitrite USEPA 353.2 (mg/L)			2.1	0.05		<	3.5	U	7.2	1		6.7	0.25		8.7	0.5	

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/9/2009			3/11/2008			3/20/2007			3/30/2006			3/24/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Alkalinity SM 2320B (mg/L)			160	20		<	1.8	U	1800	8		190	8		200	8	
Sulfate USEPA 300.1 (mg/L)			28	20		4.4	0.5		22	10		27	10		33	10	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)																	
Diesel Range Organics			0.14	0.077		0.19	0.13		0.14	0.13		0.16	0.13	J	<	0.12	U

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/25/2004			3/25/2003			3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.56 J	1 / 13	<	1	U	0.56	0.6	J	<	1.0	U		NA			NA	
1,1,2-Trichloroethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dibromo-3-chloropropane	23	1 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dibromoethane (EDB)	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dichlorobenzene	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dichloroethane	1.7	2 / 15	<	1	U	<	1.0	U	<	1.0	U	1.7	5	U	1.1	1	
1,2-Dichloropropane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,4-Dichlorobenzene	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
2-Butanone	-	0 / 15	<	2	U	<	2.0	UJ	<	5.0	U	<	50	U	<	20	U
2-Hexanone	-	0 / 15	<	2	U	<	2.0	UJ	<	5.0	U	<	50	U	<	20	U
4-Methyl-2-pentanone	-	0 / 15	<	2	U	<	2.0	UJ	<	5.0	U	<	50	U	<	10	U
Acetone	-	0 / 14	<	2	U	<	2.0	UJ	<	5.0	UJ	<	50	U			R
Benzene	0.26 J	1 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	0.26	1	J
Bromochloromethane	-	0 / 4		NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromoform	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromomethane	-	0 / 15	<	1	U	<	1.0	UJ	<	1.0	U	<	5	U	<	1	U
Carbon Disulfide	-	0 / 14	<	2	U	<	2.0	U	<	5.0	U		NA		<	1	U
Carbon Tetrachloride	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chlorobenzene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloroethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloroform	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/25/2004			3/25/2003			3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Chloromethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
cis-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Cyclohexane	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Dibromochloromethane	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Ethylbenzene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Isopropylbenzene	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methyl Acetate	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methylcyclohexane	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methylene Chloride	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	10	U	<	1	U
Styrene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Tetrachloroethene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Toluene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Trichloroethene	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Trichlorofluoromethane	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Vinyl Chloride	-	0 / 15	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Xylenes (total)	-	0 / 13	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA			NA			NA		<	5	U		NA	
Bromoethane	-	0 / 2		NA			NA			NA			NA		<	1	U
m,p-Xylene	-	0 / 2		NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA			NA			NA		<	5	U		NA	
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)			<	2	U		NA			NA			NA			NA	
Ethane RSK-175 (µg/L)			<	4	U		NA			NA			NA			NA	
Ethene RSK-175 (µg/L)			<	3	U		NA			NA			NA			NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			6.7	1		7.1	0.2		0.61	0.10		6.22	0.5		5.34	0.5	

TABLE E.4-2
CORNHUSKER ARMY AMMUNITION PLANT
WELL G0069-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			G0069			G0069			G0069			G0069			G0069		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/25/2004			3/25/2003			3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Alkalinity SM 2320B (mg/L)			190	5		240	5.0		100	5.0		212	5.0		173	5.0	
Sulfate USEPA 300.1 (mg/L)			30	2		30	5.0		17	5.0		21.8	5.0		19.0	5.0	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)																	
Diesel Range Organics			<	0.12	U		NA			NA			NA			NA	

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1								SAMW1							
METHOD	Maximum	Detection	8260B								8260B							
COLLECT DATE	Detection	Frequency	None								6/6/2019							
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																		
1,1,1-Trichloroethane	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	U	0.21	0.8	1				<	0.2	0.8	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	1 / 13				<	U	0.18	0.4	3				<	0.79	1.6	3	U
1,1,2-Trichloroethane	-	0 / 15				<	U	0.27	0.8	1				<	0.32	0.8	1	U
1,1-Dichloroethane	-	0 / 15				<	U	0.22	0.8	1				<	0.16	0.8	1	U
1,1-Dichloroethene	-	0 / 15				<	U	0.23	0.8	1				<	0.14	0.8	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	U	0.21	0.8	1				<	0.18	0.8	1	U
1,2,4-Trichlorobenzene	-	0 / 13				<	U	0.21	0.8	1				<	0.32	0.8	1	U
1,2-Dibromo-3-chloropropane	-	0 / 13				<	U	0.47	1.6	5				<	0.81	1.6	5	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	U	0.18	0.4	1				<	0.18	0.4	1	U
1,2-Dichlorobenzene	-	0 / 13				<	U	0.15	0.4	1				<	0.13	0.4	1	U
1,2-Dichloroethane	-	0 / 15	**Not Sampled**			<	U	0.13	0.4	1	**Not Sampled**			<	0.13	0.4	1	U
1,2-Dichloropropane	-	0 / 15	**in 2020, 2021**			<	U	0.18	0.4	1	**in 2017, 2018**			<	0.13	0.4	1	U
1,3-Dichlorobenzene	-	0 / 13				<	U	0.13	0.4	1				<	0.16	0.4	1	U
1,4-Dichlorobenzene	-	0 / 13				<	U	0.16	0.4	1				<	0.16	0.4	1	U
2-Butanone	-	0 / 15				<	U	2	4	6				<	1.8	4	6	U
2-Hexanone	-	0 / 15				<	U	1.7	4	5				<	1.4	4	5	U
4-Methyl-2-pentanone	-	0 / 15				<	U	0.98	3.2	5				<	1	3.2	5	U
Acetone	-	0 / 15				<	U	1.9	6.4	10				<	1.9	6.4	10	U
Benzene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Bromochloromethane	-	0 / 4				<	U	0.1	0.2	1				<	0.1	0.2	1	U
Bromodichloromethane	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Bromoform	-	0 / 15				<	U	0.46	1	1				<	0.19	0.4	1	U
Bromomethane	-	0 / 15				<	U	0.21	0.8	2				<	0.21	0.8	2	U
Carbon Disulfide	-	0 / 14				<	U	0.17	0.8	2				<	0.45	1.6	2	U
Carbon Tetrachloride	-	0 / 15				<	U	0.19	0.4	2				<	0.19	0.4	2	U
Chlorobenzene	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Chloroethane	-	0 / 15				<	U	0.41	1.6	2				<	0.41	1.6	2	U
Chloroform	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Chloromethane	-	0 / 15				<	U	0.3	0.8	2				<	0.3	0.8	2	U
cis-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1				<	0.15	0.4	1	U

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1				SAMW1				SAMW1				SAMW1			
METHOD	Maximum	Detection	8260B				8260B				8260B				8260B			
COLLECT DATE	Detection	Frequency	None				6/6/2019				None				8/15/2016			
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
cis-1,3-Dichloropropene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Cyclohexane	-	0 / 13				<	U	0.28	0.8	2				<	0.28	0.8	2	U
Dibromochloromethane	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	U	0.31	0.8	2				<	0.31	0.8	2	U
Ethylbenzene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Isopropylbenzene	-	0 / 13				<	U	0.19	0.4	1				<	0.19	0.4	1	U
Methyl Acetate	-	0 / 13				<	U	1.6	4	5				<	1.6	4	5	U
Methylcyclohexane	-	0 / 13				<	U	0.1	0.4	2				<	0.25	0.8	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	U	0.25	0.8	5				<	0.36	0.8	2	U
Methylene Chloride	-	0 / 15				<	U	0.94	2	5				<	0.32	0.8	5	U
Styrene	0.37 J	1 / 15	**Not Sampled**			<	U	0.36	0.8	1	**Not Sampled**			<	0.17	0.4	1	U
Tetrachloroethene	-	0 / 15	**in 2020, 2021**			<	U	0.2	0.4	1	**in 2017, 2018**			<	0.2	0.4	1	U
Toluene	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1				<	0.15	0.4	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	U	0.19	0.4	1				<	0.19	0.4	1	U
Trichloroethene	-	0 / 13				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Trichlorofluoromethane	-	0 / 13				<	U	0.29	0.8	2				<	0.29	0.8	2	U
Vinyl Chloride	-	0 / 15				<	U	0.1	0.2	1.5				<	0.19	0.8	2	U
Xylenes (total)	-	0 / 13				<	U	0.19	0.8	1				<	0.19	0.8	2	U
2-Chloroethyl Vinyl Ether	-	0 / 2						NA								NA		
Bromoethane	-	0 / 2						NA								NA		
m,p-Xylene	-	0 / 2						NA								NA		
O-Xylene	-	0 / 2						NA								NA		
Vinyl Acetate	-	0 / 2						NA								NA		
NATURAL ATTENUATION PARAMETERS																		
Methane RSK-175 (µg/L)						<	U	0.63	2	5				<	0.22	0.8	5	U
Ethane RSK-175 (µg/L)			**Not Sampled**			<	U	0.57	1.5	5	**Not Sampled**			<	0.57	1.5	5	U
Ethene RSK-175 (µg/L)			**in 2020, 2021**			<	U	0.4	1.4	5	**in 2017, 2018**			<	0.4	1.4	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						8.4		0.038	0.1	0.2				18	0.19	0.5	1	
Alkalinity SM 2320B (mg/L)						92		3.1	10	10				100	1.1	3.2	5	
Sulfate USEPA 300.1 (mg/L)						25		1	3	5				28	0.23	0.5	5	

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1					SAMW1						SAMW1						SAMW1					
METHOD	Maximum	Detection	8260B					8260B						8260B						8260B					
COLLECT DATE	Detection	Frequency	None					6/6/2019						None						8/15/2016					
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual							

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	1 / 13				1.2	1		<	1	U				<	3	U	<	1	U
1,1,2-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1-Dichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	2	U	<	2	U					NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dibromo-3-chloropropane	-	0 / 13				<	2	U	<	2	U				<	5	U	<	1	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dichloroethane	-	0 / 15	**Not Sampled**			<	0.5	U	<	0.5	U	**Not Sampled**			<	1	U	<	1	U
1,2-Dichloropropane	-	0 / 15	**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	1	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13				<	2	U	<	2	U				<	1	U	<	1	U
1,4-Dichlorobenzene	-	0 / 13				<	3	U	<	3	U				<	1	U	<	1	U
2-Butanone	-	0 / 15				<	4	U	<	4	U				<	6	U	<	1	U
2-Hexanone	-	0 / 15				<	4	U	<	4	U				<	5	U	<	5	U
4-Methyl-2-pentanone	-	0 / 15				<	4	U	<	4	U				<	5	U	<	5	U
Acetone	-	0 / 15				<	10	U	<	10	U				<	10	U	<	5	U
Benzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Bromochloromethane	-	0 / 4				<	1	U	<	1	U					NA			NA	
Bromodichloromethane	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Bromoform	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Bromomethane	-	0 / 15				<	1	UJ	<	1	U				<	2	U	<	1	U
Carbon Disulfide	-	0 / 14				<	1	U	<	1	U				<	2	U	<	1	U
Carbon Tetrachloride	-	0 / 15				<	0.5	U	<	0.5	U				<	2	U	<	1	U
Chlorobenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Chloroethane	-	0 / 15				<	2	U	<	1.4	U				<	2	U	<	1	U
Chloroform	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Chloromethane	-	0 / 15				<	1	U	<	1	U				<	2	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
cis-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Cyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	1	U
Dibromochloromethane	-	0 / 15				<	0.26	U	<	0.26	U				<	1	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	1.2	U	<	1.2	U				<	2	U	<	1	U
Ethylbenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Isopropylbenzene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Methyl Acetate	-	0 / 13				<	1	U	<	1	U				<	5	U	<	2	U
Methylcyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	1	U	<	1	U				<	5	U	<	5	U
Methylene Chloride	-	0 / 15				<	5	U	<	1	U				<	5	U	<	1	U
Styrene	0.37 J	1 / 15	**Not Sampled**			<	1	U	<	1	U	**Not Sampled**			0.37	1	J	<	1	U
Tetrachloroethene	-	0 / 15	**in 2014, 2015**			<	0.5	U	<	0.5	U	**in 2011**			<	1	U	<	1	U
Toluene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	0.66	U	<	0.66	U				<	1	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Trichloroethene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Trichlorofluoromethane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	1	U
Vinyl Chloride	-	0 / 15				<	1	U	<	1	U				<	1.5	U	<	1	U
Xylenes (total)	-	0 / 13					NA			NA					<	1	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2					NA			NA						NA		<	5	U
Bromoethane	-	0 / 2					NA			NA						NA		<	1	U
m,p-Xylene	-	0 / 2				<	0.46	U	<	0.46	U					NA			NA	
O-Xylene	-	0 / 2				<	1	U	<	5	U					NA			NA	
Vinyl Acetate	-	0 / 2					NA			NA						NA		<	1	U
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)						<	5	U	0.58	5	J				1.6	5	J	<	0.31	U
Ethane RSK-175 (µg/L)			**Not Sampled**			<	1.2	U	<	1.2	U	**Not Sampled**			<	5	U	<	0.61	U
Ethene RSK-175 (µg/L)			**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	5	U	<	0.76	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						20.8	0.1	J	1.7	0.1					2.3	0.1		2.5	0.1	
Alkalinity SM 2320B (mg/L)						140	1.25		140	1.25					130	5		100	20	
Sulfate USEPA 300.1 (mg/L)						29.2	1		39	1	J				22	5		17	1	J

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/11/2008			3/19/2007			3/30/2006			3/23/2005			3/24/2004			3/26/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	1 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,1,2-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,1-Dichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,1-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,2-Dibromo-3-chloropropane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,2-Dibromoethane (EDB)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,2-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,2-Dichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,2-Dichloropropane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,3-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
1,4-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
2-Butanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	2	U	<	2	U	<	2.0	UJ
2-Hexanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	2	U	<	2	U	<	2.0	UJ
4-Methyl-2-pentanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	2	U	<	2	U	<	2.0	UJ
Acetone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	2	U	<	2	U	<	2.0	UJ
Benzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Bromochloromethane	-	0 / 4		NA			NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Bromoform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Bromomethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	UJ
Carbon Disulfide	-	0 / 14	<	1	U	<	1	U	<	1	U	<	2	U	<	2	U	<	2.0	U
Carbon Tetrachloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Chlorobenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Chloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Chloroform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Chloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
cis-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/11/2008			3/19/2007			3/30/2006			3/23/2005			3/24/2004			3/26/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
cis-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Cyclohexane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Dibromochloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Ethylbenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Isopropylbenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Methyl Acetate	-	0 / 13	<	5	U	<	5	U	<	5	U	<	1	U	<	1	U	<	1.0	U
Methylcyclohexane	-	0 / 13	<	5	U	<	5	U	<	5	U	<	1	U	<	1	U	<	1.0	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Methylene Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Styrene	0.37 J	1 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Tetrachloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Toluene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
trans-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
trans-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Trichloroethene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Trichlorofluoromethane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Vinyl Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Xylenes (total)	-	0 / 13	<	2	U	<	2	U	<	2	U	<	3	U	<	1	U	<	1.0	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA			NA			NA			NA			NA			NA	
Bromoethane	-	0 / 2		NA			NA			NA			NA			NA			NA	
m,p-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA			NA			NA			NA			NA			NA	
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)			<	1.7	U	1.4	0.87		2.4	0.87			0.87		75	2			NA	
Ethane RSK-175 (µg/L)			<	3.5	U	1.9	3.5	J	1.5	3.5	J	<	1.7	U	<	4	U		NA	
Ethene RSK-175 (µg/L)			<	1.8	U	<	1.8	U	<	1.8	U	<	1.8	U	<	3	U		NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			4.6	0.5	J	<	0.05	U	<	0.05	U	<	0.05		<	0.4	U	11.0	0.1	
Alkalinity SM 2320B (mg/L)			88	2		110	8		110	8		230	8		230	5		190	5.0	
Sulfate USEPA 300.1 (mg/L)			32	10		14	1	J	16	10			10		44	2		43	5.0	

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/11/2008			3/19/2007			3/30/2006			3/23/2005			3/24/2004			3/26/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/28/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)											
1,1,1-Trichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	1.2	1 / 13	<	1.0	U		NA			NA	
1,1,2-Trichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dibromo-3-chloropropane	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dibromoethane (EDB)	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,2-Dichloropropane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,4-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
2-Butanone	-	0 / 15	<	5.0	U	<	50	U	<	20	U
2-Hexanone	-	0 / 15	<	5.0	U	<	50	U	<	20	U
4-Methyl-2-pentanone	-	0 / 15	<	5.0	U	<	50	U	<	10	U
Acetone	-	0 / 15	<	5.0	UJ	<	50	U	<	1	U
Benzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromochloromethane	-	0 / 4		NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromoform	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromomethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Carbon Disulfide	-	0 / 14	<	5.0	U		NA		<	1	U
Carbon Tetrachloride	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chlorobenzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloroform	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/28/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
cis-1,3-Dichloropropene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Cyclohexane	-	0 / 13	<	1.0	U		NA			NA	
Dibromochloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1.0	U		NA			NA	
Ethylbenzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Isopropylbenzene	-	0 / 13	<	1.0	U		NA			NA	
Methyl Acetate	-	0 / 13	<	1.0	U		NA			NA	
Methylcyclohexane	-	0 / 13	<	1.0	U		NA			NA	
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1.0	U		NA			NA	
Methylene Chloride	-	0 / 15	<	1.0	U	<	10	U	<	1	U
Styrene	0.37 J	1 / 15	<	1.0	U	<	5	U	<	1	U
Tetrachloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Toluene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Trichloroethene	-	0 / 13	<	1.0	U		NA			NA	
Trichlorofluoromethane	-	0 / 13	<	1.0	U		NA			NA	
Vinyl Chloride	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Xylenes (total)	-	0 / 13	<	1.0	U	<	5	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA		<	5	U		NA	
Bromoethane	-	0 / 2		NA		<	5	U		NA	
m,p-Xylene	-	0 / 2		NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA		<	5	U		NA	
NATURAL ATTENUATION PARAMETERS											
Methane RSK-175 (µg/L)				NA			NA			NA	
Ethane RSK-175 (µg/L)				NA			NA			NA	
Ethene RSK-175 (µg/L)				NA			NA			NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			0.47	0.10		0.778	0.5		2.45	0.5	
Alkalinity SM 2320B (mg/L)			190	5.0		202	5		205	0.5	
Sulfate USEPA 300.1 (mg/L)			48	5.0		58.8	5		67.9	5	

TABLE E.4-3
CORNHUSKER ARMY AMMUNITION PLANT
WELL SAMW1-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SAMW1			SAMW1			SAMW1		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/28/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02					SHGW02				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	5/26/2021					6/11/2020					6/6/2019				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 21	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1
1,1,2,2-Tetrachloroethane	-	0 / 21	<	U	0.21	0.8	1	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 19	<	U	0.18	0.4	3	<	U	0.18	0.4	3	<	U	0.18	0.4	3
1,1,2-Trichloroethane	88	17 / 21	<	U	0.27	0.8	1	0.33	J	0.27	0.8	1	1.1		0.27	0.8	1
1,1-Dichloroethane	-	0 / 21	<	U	0.22	0.8	1	<	U	0.22	0.8	1	<	U	0.22	0.8	1
1,1-Dichloroethene	-	0 / 21	<	U	0.23	0.8	1	<	U	0.23	0.8	1	<	U	0.23	0.8	1
1,2,3-Trichlorobenzene	-	0 / 10	<	U	0.21	0.8	1	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,2,4-Trichlorobenzene	-	0 / 19	<	U	0.21	0.8	1	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,2-Dibromo-3-chloropropane	-	0 / 19	<	U	0.47	1.6	5	<	U	0.47	1.6	5	<	U	0.47	1.6	5
1,2-Dibromoethane (EDB)	-	0 / 19	<	U	0.18	0.4	1	<	U	0.18	0.4	1	<	U	0.18	0.4	1
1,2-Dichlorobenzene	-	0 / 19	<	U	0.15	0.4	1	<	U	0.15	0.4	1	<	U	0.15	0.4	1
1,2-Dichloroethane	27	15 / 21	<	U	0.13	0.4	1	1.4		0.13	0.4	1	3.6		0.13	0.4	1
1,2-Dichloropropane	-	0 / 21	<	U	0.18	0.4	1	<	U	0.18	0.4	1	<	U	0.18	0.4	1
1,3-Dichlorobenzene	-	0 / 19	<	U	0.13	0.4	1	<	U	0.13	0.4	1	<	U	0.13	0.4	1
1,4-Dichlorobenzene	-	0 / 19	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1
2-Butanone	290	10 / 21	15		2	0.4	1	68		2	4	6	53		2	4	6
2-Hexanone	160	9 / 21	55		1.7	4	6	73		1.7	4	5	160		1.7	4	5
4-Methyl-2-pentanone	11	4 / 21	<	U	0.98	4	5	<	U	0.98	3.2	5	<	U	0.98	3.2	5
Acetone	450	9 / 20	9.1	J	1.9	3.2	5	38		1.9	6.4	10	<	U	1.9	6.4	10
Benzene	0.49 J	4 / 21	<	U	0.16	6.4	10	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Bromochloromethane	-	0 / 10	<	U	0.1	0.4	1	<	U	0.1	0.2	1	<	U	0.1	0.2	1
Bromodichloromethane	-	0 / 21	<	U	0.17	0.2	1	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Bromoform	-	0 / 21	<	U	0.46	0.4	1	<	U	0.46	1	1	<	U	0.46	1	1
Bromomethane	-	0 / 21	<	U	0.21	1	1	<	UJ	0.21	0.8	2	<	U	0.21	0.8	2
Carbon Disulfide	-	1 / 20	<	U	0.17	0.8	2	0.19	J	0.17	0.8	2	<	U	0.17	0.8	2
Carbon Tetrachloride	-	0 / 21	<	U	0.19	0.8	2	<	U	0.19	0.4	2	<	U	0.19	0.4	2
Chlorobenzene	-	0 / 21	<	U	0.17	0.4	2	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Chloroethane	1.5 J	8 / 21	<	U	0.41	0.4	1	1.5	J	0.41	1.6	2	0.43	J	0.41	1.6	2
Chloroform	-	0 / 21	<	U	0.16	1.6	2	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Chloromethane	-	0 / 21	<	U	0.3	0.4	1	<	U	0.3	0.8	2	<	U	0.3	0.8	2
cis-1,2-Dichloroethene	-	0 / 21	<	U	0.15	0.8	2	<	U	0.15	0.4	1	<	U	0.15	0.4	1
cis-1,3-Dichloropropene	-	0 / 21	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02					SHGW02				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	5/26/2021					6/11/2020					6/6/2019				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
Cyclohexane	-	0 / 19	<	U	0.28	0.4	1	<	U	0.28	0.8	2	<	U	0.28	0.8	2
Dibromochloromethane	-	0 / 21	<	U	0.17	0.8	2	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Dichlorodifluoromethane (Freon® 12)	-	0 / 19	<	U	0.31	0.4	1	<	U	0.31	0.8	2	<	U	0.31	0.8	2
Ethylbenzene	-	0 / 21	<	U	0.16	0.8	2	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Isopropylbenzene	-	0 / 19	<	U	0.19	0.4	1	<	U	0.19	0.4	1	<	U	0.19	0.4	1
Methyl Acetate	42.2	1 / 19	<	U	1.6	4	5	<	U	1.6	4	5	<	U	1.6	4	5
Methylcyclohexane	-	0 / 19	<	U	0.1	0.8	5	<	U	0.25	0.8	5	<	U	0.1	0.4	2
Methyl tert-Butyl Ether (MTBE)	-	0 / 19	<	U	0.25	0.4	2	<	U	0.1	0.4	2	<	U	0.25	0.8	5
Methylene Chloride	-	0 / 21	<	U	0.94	2	5	<	U	0.94	2	5	<	U	0.94	2	5
Styrene	-	0 / 21	<	U	0.36	0.8	1	<	U	0.36	0.8	1	<	U	0.36	0.8	1
Tetrachloroethene	1.1	1 / 21	<	U	0.2	0.4	1	<	U	0.2	0.4	1	<	U	0.2	0.4	1
Toluene	0.33 J	2 / 21	<	U	0.17	0.4	1	<	U	0.17	0.4	1	<	U	0.17	0.4	1
trans-1,2-Dichloroethene	-	0 / 21	<	U	0.15	0.8	1	<	U	0.15	0.4	1	<	U	0.15	0.4	1
trans-1,3-Dichloropropene	-	0 / 21	<	U	0.19	0.4	1	<	U	0.19	0.4	1	<	U	0.19	0.4	1
Trichloroethene	-	0 / 19	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Trichlorofluoromethane	-	0 / 19	<	U	0.29	0.4	1	<	U	0.29	0.8	2	<	U	0.29	0.8	2
Vinyl Chloride	3.5	3 / 21	<	U	0.1	0.8	2	<	U	0.1	0.2	1.5	<	U	0.1	0.2	1.5
Xylenes (total)	-	0 / 19	<	U	0.19	0.2	1.5	<	U	0.19	0.8	1	<	U	0.19	0.8	1
2-Chloroethyl Vinyl Ether	-	0 / 2			NA					NA					NA		
Bromoethane	-	0 / 2			NA					NA					NA		
m,p-Xylene	-	0 / 2			NA					NA					NA		
O-Xylene	-	0 / 2			NA					NA					NA		
Vinyl Acetate	-	0 / 2			NA					NA					NA		
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)			6100		0.63	2	5	13000		1.9	6	15	3800		1.9	6	15
Ethane RSK-175 (µg/L)			<	U	0.57	1.5	5	<	U	0.57	1.5	5	<	U	0.57	1.5	5
Ethene RSK-175 (µg/L)			<	U	0.4	1.4	5	1	J	0.4	1.4	5	<	U	0.4	1.4	5
Nitrate/Nitrite USEPA 353.2 (mg/L)			0.17		0.019	0.05	0.1	0.022	J	0.019	0.05	0.1	0.033	J	0.019	0.05	0.1
Alkalinity SM 2320B (mg/L)			200		3.1	6.4	10	160		3.1	10	10	85		3.1	10	10
Sulfate USEPA 300.1 (mg/L)			26	J	1.5	4.5	5	13	J	5.2	15	25	15		1	3	5

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02					SHGW02				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	5/26/2021					6/11/2020					6/6/2019				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02					SHGW02				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	3/23/2018					3/7/2017					8/15/2016				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 21	<	U	0.16	0.40	1	<	0.16	0.40	1	U	<	0.16	0.4	1	U
1,1,2,2-Tetrachloroethane	-	0 / 21	<	U	0.20	0.80	1	<	0.20	0.80	1	U	<	0.2	0.8	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 19	<	U	0.79	1.6	3	<	0.79	1.6	3	U	<	0.79	1.6	3	U
1,1,2-Trichloroethane	88	17 / 21	2.9		0.32	0.80	1	<	0.32	0.80	1	U	2.1	0.32	0.8	1	
1,1-Dichloroethane	-	0 / 21	<	U	0.16	0.80	1	<	0.16	0.80	1	U	<	0.16	0.8	1	U
1,1-Dichloroethene	-	0 / 21	<	U	0.14	0.80	1	<	0.14	0.80	1	U	<	0.14	0.8	1	U
1,2,3-Trichlorobenzene	-	0 / 10	<	U	0.18	0.80	1	<	0.18	0.80	1	U	<	0.18	0.8	1	U
1,2,4-Trichlorobenzene	-	0 / 19	<	U	0.32	0.80	1	<	0.32	0.80	1	U	<	0.32	0.8	1	U
1,2-Dibromo-3-chloropropane	-	0 / 19	<	U	0.81	1.6	5	<	0.81	1.6	5	U	<	0.81	1.6	5	U
1,2-Dibromoethane (EDB)	-	0 / 19	<	U	0.13	0.40	1	<	0.18	0.40	1	U	<	0.18	0.4	1	U
1,2-Dichlorobenzene	-	0 / 19	<	U	0.13	0.40	1	<	0.13	0.40	1	U	<	0.13	0.4	1	U
1,2-Dichloroethane	27	15 / 21	11		0.13	0.40	1.0	1.9	0.13	0.40	1.0		7.9	0.13	0.4	1	
1,2-Dichloropropane	-	0 / 21	<	U	0.16	0.40	1.0	<	0.13	0.40	1.0	U	<	0.13	0.4	1	U
1,3-Dichlorobenzene	-	0 / 19	<	U	0.16	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U
1,4-Dichlorobenzene	-	0 / 19	<	U	1.8	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U
2-Butanone	290	10 / 21	<	U	1.4	4.0	6.0	5.7	1.8	4.0	6.0	J	35	1.8	4	6	
2-Hexanone	160	9 / 21	15		1	4.0	5.0	<	1.4	4.0	5.0	U	60	1.4	4	5	
4-Methyl-2-pentanone	11	4 / 21	<	U	1.9	3.2	5.0	<	1.0	3.2	5.0	U	<	1	3.2	5	U
Acetone	450	9 / 20	<	U	0.16	6.4	10	8	1.9	6.4	10	J	21	1.9	6.4	10	
Benzene	0.49 J	4 / 21	<	U	0.1	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U
Bromochloromethane	-	0 / 10	<	U	0.17	0.20	1.0	<	0.10	0.20	1.0	U	<	0.1	0.2	1	U
Bromodichloromethane	-	0 / 21	<	U	0.19	0.40	1.0	<	0.17	0.40	1.0	U	<	0.17	0.4	1	U
Bromoform	-	0 / 21	<	U	0.21	0.40	1.0	<	0.19	0.40	1.0	U	<	0.19	0.4	1	U
Bromomethane	-	0 / 21	<	U	0.45	0.80	2.0	<	0.21	0.80	2.0	U	<	0.21	0.8	2	U
Carbon Disulfide	-	1 / 20	<	U	0.19	1.6	2.0	<	0.45	1.6	2.0	U	<	0.45	1.6	2	U
Carbon Tetrachloride	-	0 / 21	<	U	0.17	0.40	2.0	<	0.19	0.40	2.0	U	<	0.19	0.4	2	U
Chlorobenzene	-	0 / 21	<	U	0.41	0.40	1.0	<	0.17	0.40	1.0	U	<	0.17	0.4	1	U
Chloroethane	1.5 J	8 / 21	1.8	J	0.16	1.6	2.0	0.49	0.41	1.6	2.0	J	0.76	0.41	1.6	2	J
Chloroform	-	0 / 21	<	U	0.3	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U
Chloromethane	-	0 / 21	<	U	0.15	0.80	2.0	<	0.3	0.80	2.0	U	<	0.3	0.8	2	U
cis-1,2-Dichloroethene	-	0 / 21	<	U	0.16	0.40	1.0	<	0.15	0.40	1.0	U	<	0.15	0.4	1	U
cis-1,3-Dichloropropene	-	0 / 21	<	U	0.28	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02					SHGW02				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	3/23/2018					3/7/2017					8/15/2016				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
Cyclohexane	-	0 / 19	<	U	0.17	0.80	2.0	<	0.28	0.80	2.0	U	<	0.28	0.8	2	U
Dibromochloromethane	-	0 / 21	<	U	0.31	0.40	1.0	<	0.17	0.40	1.0	U	<	0.17	0.4	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 19	<	U	0.16	0.80	2.0	<	0.31	0.80	2.0	U	<	0.31	0.8	2	U
Ethylbenzene	-	0 / 21	<	U	0.18	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U
Isopropylbenzene	-	0 / 19	<	U	0.19	0.40	1.0	<	0.19	0.40	1.0	U	<	0.19	0.4	1	U
Methyl Acetate	42.2	1 / 19	<	U	1.6	4.0	5.0	<	1.6	4.0	5.0	U	<	1.6	4	5	U
Methylcyclohexane	-	0 / 19	<	U	0.25	0.80	2.0	<	0.25	0.80	5.0	U	<	0.25	0.8	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 19	<	U	0.36	0.80	5.0	<	0.36	0.80	2.0	U	<	0.36	0.8	2	U
Methylene Chloride	-	0 / 21	<	U	0.32	0.80	5.0	<	0.32	0.40	5.0	U	<	0.32	0.8	5	U
Styrene	-	0 / 21	<	U	0.17	0.40	1.0	<	0.17	0.40	1.0	U	<	0.17	0.4	1	U
Tetrachloroethene	1.1	1 / 21	<	U	0.20	0.40	1.0	<	0.20	0.40	1.0	U	<	0.2	0.4	1	U
Toluene	0.33 J	2 / 21	<	U	0.17	0.4	1.0	<	0.17	0.4	1.0	U	<	0.17	0.4	1	U
trans-1,2-Dichloroethene	-	0 / 21	<	U	0.15	0.40	1.0	<	0.15	0.40	1.0	U	<	0.15	0.4	1	U
trans-1,3-Dichloropropene	-	0 / 21	<	U	0.19	0.40	1.0	<	0.19	0.40	1.0	U	<	0.19	0.4	1	U
Trichloroethene	-	0 / 19	<	U	0.16	0.40	1.0	<	0.16	0.40	1.0	U	<	0.16	0.4	1	U
Trichlorofluoromethane	-	0 / 19	<	U	0.29	0.80	2.0	<	0.29	0.80	2.0	U	<	0.29	0.8	2	U
Vinyl Chloride	3.5	3 / 21	3.5		0.10	0.20	1.5	<	0.10	0.20	1.5	U	0.46	0.1	0.2	1.5	J
Xylenes (total)	-	0 / 19	<	U	0.19	0.80	2.0	<	0.19	0.80	2.0	U	<	0.19	0.8	2	U
2-Chloroethyl Vinyl Ether	-	0 / 2			NA				NA						NA		
Bromoethane	-	0 / 2			NA				NA						NA		
m,p-Xylene	-	0 / 2			NA				NA						NA		
O-Xylene	-	0 / 2			NA				NA						NA		
Vinyl Acetate	-	0 / 2			NA				NA						NA		
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)			20000		0.65	2.4	15	18000	0.44	1.6	10		20000	0.44	1.6	10	
Ethane RSK-175 (µg/L)			<	U	0.57	1.5	5.0	<	0.57	1.5	5.0	U	<	0.57	1.5	5	U
Ethene RSK-175 (µg/L)			<	U	0.4	1.4	5.0	<	0.4	1.4	5.0	U	<	0.4	1.4	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)			<	UJ	0.019	0.050	0.10	<	0.019	0.050	0.10	U	<	0.019	0.05	0.1	U
Alkalinity SM 2320B (mg/L)			230		1.1	3.2	5.0	240	1.1	3.2	5.0		260	1.1	3.2	5	
Sulfate USEPA 300.1 (mg/L)			8.3		0.23	0.50	5.0	2.2	0.23	0.50	5.0	J	9.6	0.23	0.5	5	

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02					SHGW02				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	3/23/2018					3/7/2017					8/15/2016				
			Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B					8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	8/14/2015					8/20/2014			3/15/2013			3/8/2012			None		
			Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																			
1,1,1-Trichloroethane	-	0 / 21	<	0.16	0.40	1	U	<	1	U	<	1	U	<	1	U			
1,1,2,2-Tetrachloroethane	-	0 / 21	<	0.20	0.80	1	U	<	1	U	<	1	U	<	1	U			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 19	<	0.79	1.6	3	U	<	3	U	<	1	U	<	1	U			
1,1,2-Trichloroethane	88	17 / 21	<	0.32	0.80	1	U	0.69	1	J	<	1	U	0.7	1	J			
1,1-Dichloroethane	-	0 / 21	<	0.16	0.80	1	U	<	1	U	<	1	U	<	1	U			
1,1-Dichloroethene	-	0 / 21	<	0.14	0.80	1	U	<	0.5	U	<	0.5	U	<	0.5	U			
1,2,3-Trichlorobenzene	-	0 / 10	<	0.18	0.80	1	U	<	2	U	<	2	U	<	2	U			
1,2,4-Trichlorobenzene	-	0 / 19	<	0.32	0.80	1	U	<	1	U	<	1	U	<	1	U			
1,2-Dibromo-3-chloropropane	-	0 / 19	<	0.81	1.6	5	U	<	5	U	<	2	U	<	2	U			
1,2-Dibromoethane (EDB)	-	0 / 19	<	0.18	0.40	1	U	<	1	U	<	1	U	<	1	U			
1,2-Dichlorobenzene	-	0 / 19	<	0.13	0.40	1	U	<	1	U	<	1	U	<	1	U			
1,2-Dichloroethane	27	15 / 21	3.3	0.13	0.40	1.0		6.3	1		3.9	0.5		<	0.5	U	**Not Sampled**		
1,2-Dichloropropane	-	0 / 21	<	0.13	0.40	1.0	U	<	1	U	<	1	U	<	1	U	**in 2011**		
1,3-Dichlorobenzene	-	0 / 19	<	0.16	0.40	1.0	U	<	1	U	<	2	U	<	2	U			
1,4-Dichlorobenzene	-	0 / 19	<	0.16	0.40	1.0	U	<	1	U	<	3	U	<	3	U			
2-Butanone	290	10 / 21	17	1.8	4.0	6.0		130	6		12.4	4		99.7	4				
2-Hexanone	160	9 / 21	32	1.4	4.0	5.0	J	32	5		<	4	U	6.2	4				
4-Methyl-2-pentanone	11	4 / 21	1.5	1.0	3.2	5.0	J	6.4	5	J	2.1	4	J	<	4	U			
Acetone	450	9 / 20	19	1.9	6.4	10		120	10		44.6	10		144	10	J			
Benzene	0.49 J	4 / 21	0.17	0.16	0.40	1.0	J	0.36	1	U	<	0.5	U	0.52	0.5				
Bromochloromethane	-	0 / 10	<	0.10	0.20	1.0	U	<	1	U	<	1	U	<	1	U			
Bromodichloromethane	-	0 / 21	<	0.17	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
Bromoform	-	0 / 21	<	0.19	0.40	1.0	U	<	1	U	<	1	U	<	1	U			
Bromomethane	-	0 / 21	<	0.21	0.80	2.0	U	<	2	U	<	1	U	<	1	U			
Carbon Disulfide	-	1 / 20	<	0.45	1.6	2.0	U	<	2	U	<	1	U	<	1	U			
Carbon Tetrachloride	-	0 / 21	<	0.19	0.40	2.0	U	<	2	U	<	0.5	U	<	0.5	U			
Chlorobenzene	-	0 / 21	<	0.17	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
Chloroethane	1.5 J	8 / 21	0.62	0.41	1.6	2.0	J	0.9	2	J	<	2	U	<	1.4	U			
Chloroform	-	0 / 21	<	0.16	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
Chloromethane	-	0 / 21	<	0.3	0.80	2.0	U	<	2	U	<	1	U	<	1	U			
cis-1,2-Dichloroethene	-	0 / 21	<	0.15	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
cis-1,3-Dichloropropene	-	0 / 21	<	0.16	0.40	1.0	U	<	1	U	<	1	U	<	1	U			

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B					8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	8/14/2015					8/20/2014			3/15/2013			3/8/2012			None		
			Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 19	<	0.28	0.80	2.0	U	<	2	U	<	1	U	<	1	U			
Dibromochloromethane	-	0 / 21	<	0.17	0.40	1.0	U	<	1	U	<	0.26	U	<	0.26	U			
Dichlorodifluoromethane (Freon® 12)	-	0 / 19	<	0.31	0.80	2.0	U	<	2	U	<	1.2	U	<	1.2	U			
Ethylbenzene	-	0 / 21	<	0.16	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
Isopropylbenzene	-	0 / 19	<	0.19	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
Methyl Acetate	42.2	1 / 19	<	1.6	4.0	5.0	U	<	5	U	<	1	U	42.2	1				
Methylcyclohexane	-	0 / 19	<	0.25	0.80	5.0	U	<	2	U	<	1	U	<	1	U			
Methyl tert-Butyl Ether (MTBE)	-	0 / 19	<	0.36	0.80	2.0	U	<	5	U	<	1	U	<	1	U			
Methylene Chloride	-	0 / 21	<	0.32	0.40	5.0	U	<	5	U	<	5	U	<	1	U			
Styrene	-	0 / 21	<	0.17	0.40	1.0	U	<	1	U	<	1	U	<	1	U	**Not Sampled**		
Tetrachloroethene	1.1	1 / 21	<	0.20	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U	**in 2011**		
Toluene	0.33 J	2 / 21	<	0.17	0.4	1.0	U	0.23	1	J	0.33	1	J	<	1	U			
trans-1,2-Dichloroethene	-	0 / 21	<	0.15	0.40	1.0	U	<	1	U	<	0.66	U	<	0.66	U			
trans-1,3-Dichloropropene	-	0 / 21	<	0.19	0.40	1.0	U	<	1	U	<	1	U	<	1	U			
Trichloroethene	-	0 / 19	<	0.16	0.40	1.0	U	<	1	U	<	0.5	U	<	0.5	U			
Trichlorofluoromethane	-	0 / 19	<	0.29	0.80	2.0	U	<	1	U	<	1	U	<	1	U			
Vinyl Chloride	3.5	3 / 21	<	0.10	0.20	1.5	U	<	1.2	U	<	1	U	<	1	U			
Xylenes (total)	-	0 / 19	<	0.19	0.80	2.0	U	<	2	U		NA			NA				
2-Chloroethyl Vinyl Ether	-	0 / 2		NA					NA			NA			NA				
Bromoethane	-	0 / 2		NA					NA			NA			NA				
m,p-Xylene	-	0 / 2		NA					NA		<	0.46	U	<	0.46	U			
O-Xylene	-	0 / 2		NA					NA		<	1	U	<	5	U			
Vinyl Acetate	-	0 / 2		NA					NA			NA			NA				
NATURAL ATTENUATION PARAMETERS																			
Methane RSK-175 (µg/L)			18000	0.44	1.6	10		12000	5		4800	500		2200	250				
Ethane RSK-175 (µg/L)			<	0.57	1.5	5.0	U	<	5	U	<	1.2	U	<	1.2	U	**Not Sampled**		
Ethene RSK-175 (µg/L)			<	0.4	1.4	5.0	U	<	5	U	<	1	U	<	1	U	**in 2011**		
Nitrate/Nitrite USEPA 353.2 (mg/L)			<	0.019	0.050	0.10	U	<	0.1	U	<	0.1	U	<	0.1	U			
Alkalinity SM 2320B (mg/L)			240	1.1	3.2	5.0		270	5		205	1.25		180	1.25				
Sulfate USEPA 300.1 (mg/L)			2.2	0.23	0.50	5.0	J	<	5	U	3.5	1		1.9	1				

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02					SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B					8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	8/14/2015					8/20/2014			3/15/2013			3/8/2012			None		
			Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/3/2010			3/9/2009			3/12/2008			3/20/2007			3/29/2006			3/24/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1,2,2-Tetrachloroethane	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 19	<	3	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1,2-Trichloroethane	88	17 / 21	1.1	1		15	1		47	1		37	1		50	1		7.6	3	
1,1-Dichloroethane	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,1-Dichloroethene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2,3-Trichlorobenzene	-	0 / 10		NA			NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dibromo-3-chloropropane	-	0 / 19	<	5	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dibromoethane (EDB)	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dichlorobenzene	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,2-Dichloroethane	27	15 / 21	14	1		0.36	1	J	27	1		<	1	U	1	1	J	1.4	3	J
1,2-Dichloropropane	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,3-Dichlorobenzene	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
1,4-Dichlorobenzene	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
2-Butanone	290	10 / 21	290	24		<	1	U	<	5	U	<	5	U	<	5	U	<	10	U
2-Hexanone	160	9 / 21	9.3	5		<	5	U	<	5	U	<	5	U	<	5	U	<	10	U
4-Methyl-2-pentanone	11	4 / 21	11	5		<	5	U	<	5	U	<	5	U	<	5	U	<	10	U
Acetone	450	9 / 20	450	40		<	5	U	<	5	U	<	5	U	<	5	U	<	10	U
Benzene	0.49 J	4 / 21	0.49	1	J	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Bromochloromethane	-	0 / 10		NA			NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Bromoform	-	0 / 21	<	1	UJ	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Bromomethane	-	0 / 21	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Carbon Disulfide	-	1 / 20	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Carbon Tetrachloride	-	0 / 21	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Chlorobenzene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Chloroethane	1.5 J	8 / 21	<	2	U	<	1	U	0.61	1	J	<	1	U	<	1	U	<	3	U
Chloroform	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Chloromethane	-	0 / 21	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
cis-1,2-Dichloroethene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
cis-1,3-Dichloropropene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/3/2010			3/9/2009			3/12/2008			3/20/2007			3/29/2006			3/24/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 19	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Dibromochloromethane	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 19	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Ethylbenzene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Isopropylbenzene	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Methyl Acetate	42.2	1 / 19	<	5	U	<	2	U	<	5	U	<	5	U	<	5	U	<	3	U
Methylcyclohexane	-	0 / 19	<	2	U	<	5	U	<	5	U	<	5	U	<	5	U	<	3	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 19	<	5	U	<	5	U	<	1	U	<	1	U	<	1	U	<	3	U
Methylene Chloride	-	0 / 21	<	5	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Styrene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Tetrachloroethene	1.1	1 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	UJ
Toluene	0.33 J	2 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
trans-1,2-Dichloroethene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
trans-1,3-Dichloropropene	-	0 / 21	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Trichloroethene	-	0 / 19	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Trichlorofluoromethane	-	0 / 19	<	2	U	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U
Vinyl Chloride	3.5	3 / 21	<	1.5	U	<	1	U	0.34	1	J	<	1	U	<	1	U	<	3	U
Xylenes (total)	-	0 / 19	<	1	U	<	1	U	<	2	U	<	2	U	<	2	U	<	3	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA		<	5	U		NA			NA			NA			NA	
Bromoethane	-	0 / 2		NA		<	1	U		NA			NA			NA			NA	
m,p-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA		<	1	U		NA			NA			NA			NA	
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)			18000	250		200	0.31		88	1.7		<	0.87	U	0.37	0.87	J	110	0.87	
Ethane RSK-175 (µg/L)			31	5		<	0.61	U	300	2		<	3.5	U	2.9	3.5	J	<	1.7	U
Ethene RSK-175 (µg/L)			<	5	U	<	0.76	U	34	10		<	1.8	U	<	1.8	U	<	1.8	U
Nitrate/Nitrite USEPA 353.2 (mg/L)			<	0.1	U	3.7	0.25		<	3.5	U	12	1		4.2	0.1		1.4	0.05	
Alkalinity SM 2320B (mg/L)			350	5		170	20		<	1.8	U	160	8		160	8		210	8	
Sulfate USEPA 300.1 (mg/L)			<	5	U	27	2		4.3	0.5		53	10		53	10		31	10	

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/3/2010			3/9/2009			3/12/2008			3/20/2007			3/29/2006			3/24/2005		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/24/2004			3/25/2003			3/27/2002			4/2/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,1,2-Trichloroethane	88	17 / 21	7.2	1		1.1	1.0		68	5.0		88	5		9.7	1	
1,1-Dichloroethane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 10		NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dibromo-3-chloropropane	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dibromoethane (EDB)	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dichlorobenzene	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dichloroethane	27	15 / 21	<	1	U	<	1.0	U	0.59	1.0	J	1	5	J	<	1	U
1,2-Dichloropropane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,3-Dichlorobenzene	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
1,4-Dichlorobenzene	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
2-Butanone	290	10 / 21	<	2	U	<	2.0	UJ	<	5.0	U	<	50	U	<	20	U
2-Hexanone	160	9 / 21	<	2	U	<	2.0	UJ	<	5.0	U	<	50	U	<	20	U
4-Methyl-2-pentanone	11	4 / 21	<	2	U	<	2.0	UJ	<	5.0	U	<	50	U	<	10	U
Acetone	450	9 / 20	<	2	U	<	2.0	UJ	<	5.0	UJ	<	50	U			R
Benzene	0.49 J	4 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromochloromethane	-	0 / 10		NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromoform	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromomethane	-	0 / 21	<	1	U	<	1.0	UJ	<	1.0	U	<	5	U	<	1	U
Carbon Disulfide	-	1 / 20	<	2	U	<	2.0	U	<	5.0	U		NA		<	1	U
Carbon Tetrachloride	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chlorobenzene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloroethane	1.5 J	8 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloroform	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloromethane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
cis-1,3-Dichloropropene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/24/2004			3/25/2003			3/27/2002			4/2/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Dibromochloromethane	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Ethylbenzene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Isopropylbenzene	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methyl Acetate	42.2	1 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methylcyclohexane	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methyl tert-Butyl Ether (MTBE)	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Methylene Chloride	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	10	U	<	1	U
Styrene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Tetrachloroethene	1.1	1 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	1.1	1	
Toluene	0.33 J	2 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Trichloroethene	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Trichlorofluoromethane	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U		NA			NA	
Vinyl Chloride	3.5	3 / 21	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Xylenes (total)	-	0 / 19	<	1	U	<	1.0	U	<	1.0	U	<	5	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA			NA			NA		<	5	U		NA	
Bromoethane	-	0 / 2		NA			NA			NA			NA		<	1	U
m,p-Xylene	-	0 / 2		NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA			NA			NA		<	5	U		NA	
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)			180	2			NA			NA			NA			NA	
Ethane RSK-175 (µg/L)			<	4	U		NA			NA			NA			NA	
Ethene RSK-175 (µg/L)			<	3	U		NA			NA			NA			NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			0.65	0.1		0.88	0.1		4.3	0.20		2.3	0.5		0.935	0.5	
Alkalinity SM 2320B (mg/L)			220	5		210	5.0		160	5.0		143	5		203	0.5	
Sulfate USEPA 300.1 (mg/L)			14	2		16	5.0		25	5.0		17.9	5		15.8	5	

TABLE E.4-4
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW02-VOCs AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW02			SHGW02			SHGW02			SHGW02			SHGW02		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/24/2004			3/25/2003			3/27/2002			4/2/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
RSK = Robert S. Kerr Environmental Research Laboratory
SM = Standard Method
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW03					SHGW03					SHGW03				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	5/26/2021					6/11/2020					6/6/2019				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	0 / 21	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1
1,1,2,2-Tetrachloroethane	-	0 / 21	<	U	0.21	0.8	1	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.76 J	1 / 19	<	U	0.18	0.4	3	<	U	0.18	0.4	3	0.76	J	0.18	0.4	3
1,1,2-Trichloroethane	15	11 / 21	11		0.27	0.8	1	15		0.27	0.8	1	<	U	0.27	0.8	1
1,1-Dichloroethane	-	0 / 21	<	U	0.22	0.8	1	<	U	0.22	0.8	1	<	U	0.22	0.8	1
1,1-Dichloroethene	-	0 / 21	<	U	0.23	0.8	1	<	U	0.23	0.8	1	<	U	0.23	0.8	1
1,2,3-Trichlorobenzene	-	0 / 10	<	U	0.21	0.8	1	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,2,4-Trichlorobenzene	-	0 / 19	<	U	0.21	0.8	1	<	U	0.21	0.8	1	<	U	0.21	0.8	1
1,2-Dibromo-3-chloropropane	-	0 / 19	<	U	0.47	1.6	5	<	U	0.47	1.6	5	<	U	0.47	1.6	5
1,2-Dibromoethane (EDB)	-	0 / 19	<	U	0.18	0.4	1	<	U	0.18	0.4	1	<	U	0.18	0.4	1
1,2-Dichlorobenzene	-	0 / 19	<	U	0.15	0.4	1	<	U	0.15	0.4	1	<	U	0.15	0.4	1
1,2-Dichloroethane	6	9 / 21	<	U	0.13	0.4	1	<	U	0.13	0.4	1	3.9		0.13	0.4	1
1,2-Dichloropropane	-	0 / 21	<	U	0.18	0.4	1	<	U	0.18	0.4	1	<	U	0.18	0.4	1
1,3-Dichlorobenzene	-	0 / 19	<	U	0.13	0.4	1	<	U	0.13	0.4	1	<	U	0.13	0.4	1
1,4-Dichlorobenzene	-	0 / 19	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1
2-Butanone	5.9 J	2 / 21	<	U	2	0.4	1	<	U	2	4	6	<	U	2	4	6
2-Hexanone	-	0 / 21	<	U	1.7	4	6	<	U	1.7	4	5	<	U	1.7	4	5
4-Methyl-2-pentanone	-	0 / 21	<	U	0.98	4	5	<	U	0.98	3.2	5	<	U	0.98	3.2	5
Acetone	7	3 / 20	<	U	1.9	3.2	5	<	U	1.9	6.4	10	<	U	1.9	6.4	10
Benzene	7.3	15 / 21	<	U	0.16	6.4	10	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Bromochloromethane	-	0 / 10	<	U	0.1	0.4	1	<	U	0.1	0.2	1	<	U	0.1	0.2	1
Bromodichloromethane	-	0 / 21	<	U	0.17	0.2	1	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Bromoform	-	0 / 21	<	U	0.46	0.4	1	<	U	0.46	1	1	<	U	0.46	1	1
Bromomethane	-	0 / 21	<	U	0.21	1	1	<	UJ	0.21	0.8	2	<	U	0.21	0.8	2
Carbon Disulfide	-	0 / 20	<	U	0.17	0.8	2	<	U	0.17	0.8	2	<	U	0.17	0.8	2
Carbon Tetrachloride	-	0 / 21	<	U	0.19	0.8	2	<	U	0.19	0.4	2	<	U	0.19	0.4	2
Chlorobenzene	-	0 / 21	<	U	0.17	0.4	2	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Chloroethane	-	0 / 21	<	U	0.41	0.4	1	<	U	0.41	1.6	2	<	U	0.41	1.6	2
Chloroform	-	0 / 21	<	U	0.16	1.6	2	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Chloromethane	-	0 / 21	<	U	0.3	0.4	1	<	U	0.3	0.8	2	<	U	0.3	0.8	2
cis-1,2-Dichloroethene	-	0 / 21	<	U	0.15	0.8	2	<	U	0.15	0.4	1	<	U	0.15	0.4	1
cis-1,3-Dichloropropene	-	0 / 21	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW03					SHGW03					SHGW03				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	5/26/2021					6/11/2020					6/6/2019				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ
Cyclohexane	1.7	2 / 19	<	U	0.28	0.4	1	<	U	0.28	0.8	2	<	U	0.28	0.8	2
Dibromochloromethane	-	0 / 21	<	U	0.17	0.8	2	<	U	0.17	0.4	1	<	U	0.17	0.4	1
Dichlorodifluoromethane (Freon® 12)	-	0 / 19	<	U	0.31	0.4	1	<	U	0.31	0.8	2	<	U	0.31	0.8	2
Ethylbenzene	17	13 / 21	<	U	0.16	0.8	2	<	U	0.16	0.4	1	0.79	J	0.16	0.4	1
Isopropylbenzene	1.2	4 / 19	<	U	0.19	0.4	1	<	U	0.19	0.4	1	<	U	0.19	0.4	1
Methyl Acetate	-	0 / 19	<	U	1.6	4	5	<	U	1.6	4	5	<	U	1.6	4	5
Methylcyclohexane	4.9	2 / 19	<	U	0.1	0.8	5	<	U	0.1	0.4	2	<	U	0.1	0.4	2
Methyl tert-Butyl Ether (MTBE)	-	0 / 19	<	U	0.25	0.4	2	<	U	0.25	0.8	5	<	U	0.25	0.8	5
Methylene Chloride	-	0 / 21	<	U	0.94	2	5	<	U	0.94	2	5	<	U	0.94	2	5
Styrene	-	0 / 21	<	U	0.36	0.8	1	<	U	0.36	0.8	1	<	U	0.36	0.8	1
Tetrachloroethene	0.56 J	1 / 21	<	U	0.2	0.4	1	<	U	0.2	0.4	1	<	U	0.2	0.4	1
Toluene	-	1 / 21	<	U	0.17	0.4	1	<	U	0.17	0.4	1	<	U	0.17	0.4	1
trans-1,2-Dichloroethene	-	0 / 21	<	U	0.15	0.8	1	<	U	0.15	0.4	1	<	U	0.15	0.4	1
trans-1,3-Dichloropropene	-	0 / 21	<	U	0.19	0.4	1	<	U	0.19	0.4	1	<	U	0.19	0.4	1
Trichloroethene	-	0 / 19	<	U	0.16	0.4	1	<	U	0.16	0.4	1	<	U	0.16	0.4	1
Trichlorofluoromethane	-	0 / 19	<	U	0.29	0.4	1	<	U	0.29	0.8	2	<	U	0.29	0.8	2
Vinyl Chloride	4.4	4 / 21	<	U	0.1	0.8	2	<	U	0.1	0.2	1.5	<	U	0.1	0.2	1.5
Xylenes (total)	46	14 / 19	<	U	0.19	0.2	1.5	<	U	0.19	0.8	1	1.3		0.19	0.8	1
2-Chloroethyl Vinyl Ether	-	0 / 2			NA					NA					NA		
Bromoethane	-	0 / 2			NA					NA					NA		
m,p-Xylene	6.4	2 / 2			NA					NA					NA		
O-Xylene	1.5	1 / 2			NA					NA					NA		
Vinyl Acetate	-	0 / 2			NA					NA					NA		
NATURAL ATTENUATION PARAMETERS																	
Methane RSK-175 (µg/L)			51		0.63	2	5	160		0.63	2	5	320		0.63	2	5
Ethane RSK-175 (µg/L)			<	U	0.57	1.5	5	<	U	0.57	1.5	5	<	U	0.57	1.5	5
Ethene RSK-175 (µg/L)			<	U	0.4	1.4	5	<	U	0.4	1.4	5	<	U	0.4	1.4	5
Nitrate/Nitrite USEPA 353.2 (mg/L)			7.5		0.019	0.05	0.1	1.9		0.019	0.05	0.1	0.47		0.019	0.05	0.1
Alkalinity SM 2320B (mg/L)			160		3.1	6.4	10	160		3.1	10	10	180		3.1	10	10
Sulfate USEPA 300.1 (mg/L)			31		1.5	4.5	5	39		5.2	15	25	29		1	3	5
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)																	
Diesel Range Organics			0.18	J	0.031	0.12	0.24	<	U	32	120	250	1.1	J	0.037	0.14	0.29

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW03					SHGW03					SHGW03				
METHOD	Maximum	Detection	8260B					8260B					8260B				
COLLECT DATE	Detection	Frequency	5/26/2021					6/11/2020					6/6/2019				
			Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ	Result	Qual	DL	LOD	LOQ

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID				SHGW03					SHGW03					SHGW03			
METHOD	Maximum			8260B					8260B					8260B			
COLLECT DATE	Detection			3/23/2018					3/5/2017					8/15/2016			
		Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																	
1,1,1-Trichloroethane	-	<	U	0.16	0.40	1	<	0.32	0.80	2	U	<	0.16	0.4	1	U
1,1,2,2-Tetrachloroethane	-	<	U	0.20	0.8	1	<	0.40	1.6	2	U	<	0.2	0.8	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.76 J	<	U	0.79	1.6	3	<	1.6	3.2	6	U	<	0.79	1.6	3	U
1,1,2-Trichloroethane	15	<	U	0.32	0.8	1	<	0.64	1.6	2	U	<	0.32	0.8	1	U
1,1-Dichloroethane	-	<	U	0.16	0.8	1	<	0.32	1.6	2	U	<	0.16	0.8	1	U
1,1-Dichloroethene	-	<	U	0.14	0.8	1	<	0.28	1.6	2	U	<	0.14	0.8	1	U
1,2,3-Trichlorobenzene	-	<	U	0.18	0.8	1	<	0.36	1.6	2	U	<	0.18	0.8	1	U
1,2,4-Trichlorobenzene	-	<	U	0.32	0.8	1	<	0.64	1.6	2	U	<	0.32	0.8	1	U
1,2-Dibromo-3-chloropropane	-	<	U	0.81	1.6	5	<	0.16	3.2	10	U	<	0.81	1.6	5	U
1,2-Dibromoethane (EDB)	-	<	U	0.13	0.40	1	<	0.36	0.80	2	U	<	0.18	0.4	1	U
1,2-Dichlorobenzene	-	<	U	0.13	0.40	1	<	0.26	0.80	2	U	<	0.13	0.4	1	U
1,2-Dichloroethane	6	<	U	0.1	0.40	1.0	1.8	1.0	0.80	2.0		<	0.13	0.4	1	U
1,2-Dichloropropane	-	<	U	0.16	0.40	1.0	<	0.26	0.80	2.0	U	<	0.13	0.4	1	U
1,3-Dichlorobenzene	-	<	U	0.16	0.40	1.0	<	0.32	0.80	2.0	U	<	0.16	0.4	1	U
1,4-Dichlorobenzene	-	<	U	1.8	0.40	1.0	<	0.32	0.80	2.0	U	<	0.16	0.4	1	U
2-Butanone	5.9 J	<	U	1.4	4.0	6	5.6	3.7	8.0	12	J	<	1.8	4	6	U
2-Hexanone	-	<	U	1	4.0	5	<	2.8	8.0	10	U	<	1.4	4	5	U
4-Methyl-2-pentanone	-	<	U	1.9	3.2	5	<	2.1	6.4	10	U	<	1	3.2	5	U
Acetone	7	<	U	0.16	6.4	10	7	1.9	6.4	10	J	2.4	1.9	6.4	10	J
Benzene	7.3	0.21	J	0.1	0.40	1.0	0.27	0.32	0.80	2.0	J	<	0.16	0.4	1	U
Bromochloromethane	-	<	U	0.17	0.20	1.0	<	0.20	0.40	2.0	U	<	0.1	0.2	1	U
Bromodichloromethane	-	<	U	0.19	0.40	1.0	<	0.34	0.80	2.0	U	<	0.17	0.4	1	U
Bromoform	-	<	U	0.21	0.40	1.0	<	0.38	0.80	2.0	U	<	0.19	0.4	1	U
Bromomethane	-	<	U	0.45	0.8	2.0	<	0.42	1.6	4.0	U	<	0.21	0.8	2	U
Carbon Disulfide	-	<	U	0.19	1.6	2.0	<	0.90	3.2	4.0	U	<	0.45	1.6	2	U
Carbon Tetrachloride	-	<	U	0.17	0.40	2.0	<	0.38	0.80	4.0	U	<	0.19	0.4	2	U
Chlorobenzene	-	<	U	0.41	0.40	1.0	<	0.34	0.80	2.0	U	<	0.17	0.4	1	U
Chloroethane	-	<	U	0.16	1.6	2.0	<	0.82	3.2	4.0	U	<	0.41	1.6	2	U
Chloroform	-	<	U	0.3	0.40	1.0	<	0.32	0.80	2.0	U	<	0.16	0.4	1	U
Chloromethane	-	<	U	0.15	0.8	2.0	<	0.60	1.6	4.0	U	<	0.3	0.8	2	U
cis-1,2-Dichloroethene	-	<	U	0.16	0.40	1.0	<	0.30	0.80	2.0	U	<	0.15	0.4	1	U
cis-1,3-Dichloropropene	-	<	U	0.28	0.40	1.0	<	0.32	0.80	2.0	U	<	0.16	0.4	1	U

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03					SHGW03					SHGW03				
METHOD	Maximum	8260B					8260B					8260B				
COLLECT DATE	Detection	3/23/2018					3/5/2017					8/15/2016				
		Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual
Cyclohexane	1.7	<	U	0.17	0.8	2.0	<	0.56	1.6	4.0	U	<	0.28	0.8	2	U
Dibromochloromethane	-	<	U	0.31	0.40	1.0	<	0.34	0.80	2.0	U	<	0.17	0.4	1	U
Dichlorodifluoromethane (Freon® 12)	-	<	U	0.16	0.8	2.0	<	0.64	1.6	4.0	U	<	0.31	0.8	2	U
Ethylbenzene	17	1.1		0.18	0.40	1.0	1.5	0.32	0.80	2.0		<	0.16	0.4	1	U
Isopropylbenzene	1.2	<	U	0.19	0.40	1.0	<	0.38	0.80	2.0	U	<	0.19	0.4	1	U
Methyl Acetate	-	<	U	1.6	4.0	5	<	3.3	8.0	10	U	<	1.6	4	5	U
Methylcyclohexane	4.9	<	U	0.25	0.8	2	<	0.50	1.6	10	U	<	0.25	0.8	5	U
Methyl tert-Butyl Ether (MTBE)	-	<	U	0.36	0.8	5.0	<	0.71	1.6	4.0	U	<	0.36	0.8	2	U
Methylene Chloride	-	<	U	0.32	0.8	5	<	0.64	1.6	10	U	<	0.32	0.8	5	U
Styrene	-	<	U	0.17	0.40	1.0	<	0.34	0.80	2.0	U	<	0.17	0.4	1	U
Tetrachloroethene	0.56 J	<	U	0.20	0.40	1.0	<	0.40	0.80	2.0	U	<	0.2	0.4	1	U
Toluene	-	<	U	0.17	0.40	1.0	<	0.34	0.80	2.0	U	<	0.17	0.4	1	U
trans-1,2-Dichloroethene	-	<	U	0.15	0.40	1.0	<	0.30	0.80	2.0	U	<	0.15	0.4	1	U
trans-1,3-Dichloropropene	-	<	U	0.19	0.40	1.0	<	0.38	0.80	2.0	U	<	0.19	0.4	1	U
Trichloroethene	-	<	U	0.16	0.40	1.0	<	0.32	0.80	2.0	U	<	0.16	0.4	1	U
Trichlorofluoromethane	-	<	U	0.29	0.8	2.0	<	0.58	1.6	4.0	U	<	0.29	0.8	2	U
Vinyl Chloride	4.4	<	U	0.10	0.20	1.5	0.12	0.20	0.40	3.0	J	<	0.1	0.2	1.5	U
Xylenes (total)	46	2.4		0.19	0.8	2.0	3.2	0.38	1.6	4.0		<	0.19	0.8	2	U
2-Chloroethyl Vinyl Ether	-			NA				NA						NA		
Bromoethane	-			NA				NA						NA		
m,p-Xylene	6.4			NA				NA						NA		
O-Xylene	1.5			NA				NA						NA		
Vinyl Acetate	-			NA				NA						NA		
NATURAL ATTENUATION PARAMETERS																
Methane RSK-175 (µg/L)		2200		0.22	0.8	5	4500	0.22	0.80	5.0		390	0.22	0.8	5	
Ethane RSK-175 (µg/L)		<	U	0.57	1.5	5	<	0.57	1.5	5.0	U	<	0.57	1.5	5	U
Ethene RSK-175 (µg/L)		<	U	0.4	1.4	5	<	0.4	1.4	5.0	U	<	0.4	1.4	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	U	0.019	0.05	0.1	<	0.019	0.050	0.10	U	0.56	0.019	0.05	0.1	
Alkalinity SM 2320B (mg/L)		230		1.1	3.2	5	230	1.1	3.2	5.0		200	1.1	3.2	5	
Sulfate USEPA 300.1 (mg/L)		12		0.23	0.5	5	14	0.23	0.50	5.0		30	0.23	0.5	5	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (m																
Diesel Range Organics		2.1		0.031	0.12	0.24	5.0	0.031	0.11	0.24		0.95	0.031	0.12	0.24	

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03					SHGW03					SHGW03				
METHOD	Maximum	8260B					8260B					8260B				
COLLECT DATE	Detection	3/23/2018					3/5/2017					8/15/2016				
		Result	Qual	DL	LOD	LOQ	Result	DL	LOD	LOQ	Qual	Result	DL	LOD	LOQ	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03					SHGW03			SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B					8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	8/14/2015					8/20/2014			3/15/2013			3/8/2012			None			3/2/2010		
		Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																					
1,1,1-Trichloroethane	-	<	0.32	0.80	2	U	<	1	U	<	1	U	<	1	U				<	1	U
1,1,2,2-Tetrachloroethane	-	<	0.40	1.6	2	U	<	1	U	<	1	U	<	1	U				<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.76 J	<	1.6	3.2	6	U	<	3	U	<	1	U	<	1	U				<	3	U
1,1,2-Trichloroethane	15	<	0.64	1.6	2	U	0.78	1	J	0.42	1	J	<	1	U				<	1	U
1,1-Dichloroethane	-	<	0.32	1.6	2	U	<	1	U	<	1	U	<	1	U				<	1	U
1,1-Dichloroethene	-	<	0.28	1.6	2	U	<	1	U	<	0.5	U	<	0.5	U				<	1	U
1,2,3-Trichlorobenzene	-	<	0.36	1.6	2	U	<	1	U	<	2	U	<	2	U					NA	
1,2,4-Trichlorobenzene	-	<	0.64	1.6	2	U	<	1	U	<	1	U	<	1	U				<	1	U
1,2-Dibromo-3-chloropropane	-	<	0.16	3.2	10	U	<	5	U	<	2	U	<	2	U				<	5	U
1,2-Dibromoethane (EDB)	-	<	0.36	0.80	2	U	<	1	U	<	1	U	<	1	U				<	1	U
1,2-Dichlorobenzene	-	<	0.26	0.80	2	U	<	1	U	<	1	U	<	1	U				<	1	U
1,2-Dichloroethane	6	0.53	1.0	0.80	2.0	J	1	1		<	0.5	U	<	0.5	U	**Not Sampled**			<	1	U
1,2-Dichloropropane	-	<	0.26	0.80	2.0	U	<	1	U	<	1	U	<	1	U	**in 2011**			<	1	U
1,3-Dichlorobenzene	-	<	0.32	0.80	2.0	U	<	1	U	<	2	U	<	2	U				<	1	U
1,4-Dichlorobenzene	-	<	0.32	0.80	2.0	U	<	1	U	<	3	U	<	3	U				<	1	U
2-Butanone	5.9 J	5.9	3.7	8.0	12	J	<	6	U	<	4	U	<	4	U				<	6	U
2-Hexanone	-	<	2.8	8.0	10	U	<	5	U	<	4	U	<	4	U				<	5	U
4-Methyl-2-pentanone	-	<	2.1	6.4	10	U	<	5	U	<	4	U	<	4	U				<	5	U
Acetone	7	4.2	3.8	13	20	J	<	10	U	<	10	U	<	10	UJ				<	10	U
Benzene	7.3	0.44	0.32	0.80	2.0	J	0.65	1	J	1.4	0.5		0.64	0.5					0.37	1	J
Bromochloromethane	-	<	0.20	0.40	2.0	U	<	1	U	<	1	U	<	1	U					NA	
Bromodichloromethane	-	<	0.34	0.80	2.0	U	<	1	U	<	0.5	U	<	0.5	U				<	1	U
Bromoform	-	<	0.38	0.80	2.0	U	<	1	U	<	1	U	<	1	U				<	1	U
Bromomethane	-	<	0.42	1.6	4.0	U	<	2	U	<	1	U	<	1	U				<	2	U
Carbon Disulfide	-	<	0.90	3.2	4.0	U	<	2	U	<	1	U	<	1	U				<	2	U
Carbon Tetrachloride	-	<	0.38	0.80	4.0	U	<	2	U	<	0.5	U	<	0.5	U				<	2	U
Chlorobenzene	-	<	0.34	0.80	2.0	U	<	1	U	<	0.5	U	<	0.5	U				<	1	U
Chloroethane	-	<	0.82	3.2	4.0	U	<	2	U	<	2	U	<	1.4	U				<	2	U
Chloroform	-	<	0.32	0.80	2.0	U	<	1	U	<	0.5	U	<	0.5	U				<	1	U
Chloromethane	-	<	0.60	1.6	4.0	U	<	2	U	<	1	U	<	1	U				<	2	U
cis-1,2-Dichloroethene	-	<	0.30	0.80	2.0	U	<	1	U	<	0.5	U	<	0.5	U				<	1	U
cis-1,3-Dichloropropene	-	<	0.32	0.80	2.0	U	<	1	U	<	1	U	<	1	U				<	1	U

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03					SHGW03			SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B					8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	8/14/2015					8/20/2014			3/15/2013			3/8/2012			None			3/2/2010		
		Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	1.7	<	0.56	1.6	4.0	U	0.4	2	J	<	1	U	<	1	U				<	2	U
Dibromochloromethane	-	<	0.34	0.80	2.0	U	<	1	U	<	0.26	U	<	0.26	U				<	1	U
Dichlorodifluoromethane (Freon® 12)	-	<	0.64	1.6	4.0	U	<	2	U	<	1.2	U	<	1.2	U				<	2	U
Ethylbenzene	17	1.7	0.32	0.80	2.0	J	1.7	1		2.3	0.5		0.54	0.5					<	1	UJ
Isopropylbenzene	1.2	<	0.38	0.80	2.0	U	0.24	1	J	<	0.5	U	<	0.5	U				<	1	U
Methyl Acetate	-	<	3.3	8.0	10	U	<	5	U	<	1	U	<	1	U				<	5	U
Methylcyclohexane	4.9	<	0.50	1.6	10	U	<	5	U	<	1	U	<	1	U				<	2	U
Methyl tert-Butyl Ether (MTBE)	-	<	0.71	1.6	4.0	U	<	2	U	<	1	U	<	1	U				<	5	U
Methylene Chloride	-	<	0.64	1.6	10	U	<	5	U	<	5	U	<	1	U				<	5	U
Styrene	-	<	0.34	0.80	2.0	U	<	1	U	<	1	U	<	1	U	**Not Sampled**			<	1	U
Tetrachloroethene	0.56 J	<	0.40	0.80	2.0	U	<	1	U	<	0.5	U	<	0.5	U	**in 2011**			<	1	U
Toluene	-	<	0.34	0.80	2.0	U	0.18	1	J	<	1	U	<	1	U				<	1	U
trans-1,2-Dichloroethene	-	<	0.30	0.80	2.0	U	<	1	U	<	0.66	U	<	0.66	U				<	1	U
trans-1,3-Dichloropropene	-	<	0.38	0.80	2.0	U	<	1	U	<	1	U	<	1	U				<	1	U
Trichloroethene	-	<	0.32	0.80	2.0	U	<	1	U	<	0.5	U	<	0.5	U				<	1	U
Trichlorofluoromethane	-	<	0.58	1.6	4.0	U	<	2	U	<	1	U	<	1	U				<	2	U
Vinyl Chloride	4.4	<	0.20	0.40	3.0	U	<	1.2	U	<	1	U	<	1	U				<	1.5	U
Xylenes (total)	46	2.8	0.38	1.6	4.0	J	3	2	J		NA			NA					0.69	1	J
2-Chloroethyl Vinyl Ether	-		NA					NA			NA			NA						NA	
Bromoethane	-		NA					NA			NA			NA						NA	
m,p-Xylene	6.4		NA					NA		6.4	0.46		1.1	0.46						NA	
O-Xylene	1.5		NA					NA		1.5	1		<	5	U					NA	
Vinyl Acetate	-		NA					NA			NA			NA						NA	
NATURAL ATTENUATION PARAMETERS																					
Methane RSK-175 (µg/L)		4500	0.22	0.80	5.0		7600	5		3300	100		1800	50	J				130	5	
Ethane RSK-175 (µg/L)		<	0.57	1.5	5.0	U	<	5	U	<	1.2	U	<	1.2	U				<	5	U
Ethene RSK-175 (µg/L)		<	0.4	1.4	5.0	U	<	5	U	<	1	U	<	1	U				<	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)		<	0.019	0.050	0.10	U	<	0.1	U	<	0.1	U	0.271	0.1					2	0.1	
Alkalinity SM 2320B (mg/L)		230	1.1	3.2	5.0		250	5		190	1.25		145	1.25					190	5	
Sulfate USEPA 300.1 (mg/L)		14	0.23	0.50	5.0		6.4	5		8.3	1		27	1					120	25	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (m																**Not Sampled**					
Diesel Range Organics		5.0	0.031	0.11	0.24		1.4	0.24		1	0.15		0.48	0.15		**in 2011**			1.3	0.24	

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03					SHGW03			SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B					8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	8/14/2015					8/20/2014			3/15/2013			3/8/2012			None			3/2/2010		
	Result	DL	LOD	LOQ	Qual	Result	LOQ	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03			SHGW03			SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	3/9/2009			3/12/2008			3/20/2007			3/30/2006			3/24/2005			3/25/2004		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																			
1,1,1-Trichloroethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,1,2,2-Tetrachloroethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.76 J	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,1,2-Trichloroethane	15	0.59	1	J	1.1	1		1.6	1		3.3	1		3.4	3		4	1	
1,1-Dichloroethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,1-Dichloroethene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,2,3-Trichlorobenzene	-		NA			NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,2-Dibromo-3-chloropropane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,2-Dibromoethane (EDB)	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,2-Dichlorobenzene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,2-Dichloroethane	6	<	1	U	<	1	U	<	1	U	<	1	U	1	3	J	1.9	1	
1,2-Dichloropropane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,3-Dichlorobenzene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
1,4-Dichlorobenzene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
2-Butanone	5.9 J	<	1	U	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U
2-Hexanone	-	<	5	U	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U
4-Methyl-2-pentanone	-	<	5	U	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U
Acetone	7	<	5	U	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U
Benzene	7.3	0.44	1	J	<	1	U	1.2	1	J	0.9	1	J	0.6	3	J	<	1	U
Bromochloromethane	-		NA			NA			NA			NA			NA			NA	
Bromodichloromethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Bromoform	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Bromomethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Carbon Disulfide	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	2	U
Carbon Tetrachloride	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Chlorobenzene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Chloroethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Chloroform	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Chloromethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
cis-1,2-Dichloroethene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
cis-1,3-Dichloropropene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03			SHGW03			SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	3/9/2009			3/12/2008			3/20/2007			3/30/2006			3/24/2005			3/25/2004		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	1.7	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Dibromochloromethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U
Ethylbenzene	17	<	1	U	0.33	1	J	<	1	U	<	1	U	<	3	U	3.2	1	
Isopropylbenzene	1.2	<	1	U	0.64	1	J	<	1	U	<	1	U	<	3	U	<	1	U
Methyl Acetate	-	<	5	U	<	5	U	<	5	U	<	5	U	<	3	U	<	1	U
Methylcyclohexane	4.9	<	5	U	<	5	U	<	5	U	<	5	U	<	3	U	<	1	U
Methyl tert-Butyl Ether (MTBE)	-	<	5	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Methylene Chloride	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Styrene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Tetrachloroethene	0.56 J	<	1	U	<	1	U	<	1	U	<	1	U	<	3	UJ	<	1	U
Toluene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
trans-1,2-Dichloroethene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
trans-1,3-Dichloropropene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Trichloroethene	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Trichlorofluoromethane	-	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Vinyl Chloride	4.4	<	1	U	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U
Xylenes (total)	46	0.42	2	J	0.65	2	J	<	2	U	<	2	U	1.3	3	J	8.9	1	
2-Chloroethyl Vinyl Ether	-	<	5	U		NA			NA			NA			NA			NA	
Bromoethane	-	<	1	U		NA			NA			NA			NA			NA	
m,p-Xylene	6.4		NA			NA			NA			NA			NA			NA	
O-Xylene	1.5		NA			NA			NA			NA			NA			NA	
Vinyl Acetate	-	<	1	U		NA			NA			NA			NA			NA	
NATURAL ATTENUATION PARAMETERS																			
Methane RSK-175 (µg/L)		82	0.31	J	6.4	1.7		0.56	0.87	J	0.58	0.87	J	1.8	0.87		100	2	
Ethane RSK-175 (µg/L)		<	0.61	U	<	3.5	U	<	3.5	U	3.8	3.5		<	1.7	U	<	4	U
Ethene RSK-175 (µg/L)		<	0.76	U	<	1.8	U	<	1.8	U	<	1.8	U	<	1.8	U	<	3	U
Nitrate/Nitrite USEPA 353.2 (mg/L)		9.2	0.5		3.4	0.5		5.8	1		5.7	0.25		3.4	0.25		0.59	0.1	
Alkalinity SM 2320B (mg/L)		200	20		240	4		220	8		220	8		210	8		190	5	
Sulfate USEPA 300.1 (mg/L)		74	20		28	10		24	10		32	10		26	10		15	2	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (m																			
Diesel Range Organics		2.5	0.077		2.7	0.13		5.9	0.5	J	1.2	0.13	J	1.4	0.12		32	1.20	

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03			SHGW03			SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	3/9/2009			3/12/2008			3/20/2007			3/30/2006			3/24/2005			3/25/2004		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	3/26/2003			3/27/2002			4/3/2001			3/27/2000		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)													
1,1,1-Trichloroethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1,2,2-Tetrachloroethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	0.76 J	<	1.0	U	<	1.0	U		NA			NA	
1,1,2-Trichloroethane	15	<	1.0	U	<	5.0	U	<	5	U	11	1	
1,1-Dichloroethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,2,3-Trichlorobenzene	-		NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dibromo-3-chloropropane	-	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dibromoethane (EDB)	-	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dichlorobenzene	-	<	1.0	U	<	1.0	U		NA			NA	
1,2-Dichloroethane	6	3.1	1.0		<	1.0	U	1.9	5	J	6	1	
1,2-Dichloropropane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
1,3-Dichlorobenzene	-	<	1.0	U	<	1.0	U		NA			NA	
1,4-Dichlorobenzene	-	<	1.0	U	<	1.0	U		NA			NA	
2-Butanone	5.9 J	<	2.0	UJ	<	5.0	U	<	50	U	<	20	U
2-Hexanone	-	<	2.0	UJ	<	5.0	U	<	50	U	<	20	U
4-Methyl-2-pentanone	-	<	2.0	UJ	<	5.0	U	<	50	U	<	10	U
Acetone	7	<	2.0	UJ	<	5.0	UJ	<	50	U			R
Benzene	7.3	7.3	1.0		4.4	1.0		1.4	5	J	3.2	1	
Bromochloromethane	-		NA			NA			NA			NA	
Bromodichloromethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromoform	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Bromomethane	-	<	1.0	UJ	<	1.0	U	<	5	U	<	1	U
Carbon Disulfide	-	<	2.0	U	<	5.0	U		NA		<	1	U
Carbon Tetrachloride	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chlorobenzene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloroethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloroform	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Chloromethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
cis-1,2-Dichloroethene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
cis-1,3-Dichloropropene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	3/26/2003			3/27/2002			4/3/2001			3/27/2000		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	1.7	<	1.0	U	1.7	1.0			NA			NA	
Dibromochloromethane	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	<	1.0	U	<	1.0	U		NA			NA	
Ethylbenzene	17	17	1.0		11	1.0		3.8	5	J	6.6	1	
Isopropylbenzene	1.2	1.2	1.0		1	1.0			NA			NA	
Methyl Acetate	-	<	1.0	U	<	1.0	U		NA			NA	
Methylcyclohexane	4.9	4.9	1.0		2.1	1.0			NA			NA	
Methyl tert-Butyl Ether (MTBE)	-	<	1.0	U	<	1.0	U		NA			NA	
Methylene Chloride	-	<	1.0	U	<	1.0	U	<	10	U	<	1	U
Styrene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Tetrachloroethene	0.56 J	<	1.0	U	<	1.0	U	<	5	U	0.56	1	J
Toluene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
trans-1,2-Dichloroethene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
trans-1,3-Dichloropropene	-	<	1.0	U	<	1.0	U	<	5	U	<	1	U
Trichloroethene	-	<	1.0	U	<	1.0	U		NA			NA	
Trichlorofluoromethane	-	<	1.0	U	<	1.0	U		NA			NA	
Vinyl Chloride	4.4	1.2	1.0		1.6	1.0		<	5	U	4.4	1	
Xylenes (total)	46	46	1.0		25	1.0		12	5		18.4	1	
2-Chloroethyl Vinyl Ether	-		NA			NA		<	5	U		NA	
Bromoethane	-		NA			NA			NA		<	1	U
m,p-Xylene	6.4		NA			NA			NA			NA	
O-Xylene	1.5		NA			NA			NA			NA	
Vinyl Acetate	-		NA			NA		<	5	U		NA	
NATURAL ATTENUATION PARAMETERS													
Methane RSK-175 (µg/L)			NA			NA			NA			NA	
Ethane RSK-175 (µg/L)			NA			NA			NA			NA	
Ethene RSK-175 (µg/L)			NA			NA			NA			NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)		0.47	0.1		0.77	0.10		3.07	0.5		0.575	0.5	
Alkalinity SM 2320B (mg/L)		220	5.0		160	5.0		169	5		<	5	U
Sulfate USEPA 300.1 (mg/L)		10	5.0		19	5.0		22.2	5		12.1	5	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (m													
Diesel Range Organics			NA			NA			NA			NA	

TABLE E.4-5
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW03-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID		SHGW03			SHGW03			SHGW03			SHGW03		
METHOD	Maximum	8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	3/26/2003			3/27/2002			4/3/2001			3/27/2000		
		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04					SHGW04			SHGW04				
METHOD	Maximum	Detection	8260B			8260B					8260B			8260B				
COLLECT DATE	Detection	Frequency	None			6/6/2019					None			8/15/2016				
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																		
1,1,1-Trichloroethane	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	U	0.21	0.8	1				<	0.2	0.8	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 13				<	U	0.18	0.4	3				<	0.79	1.6	3	U
1,1,2-Trichloroethane	-	0 / 15				<	U	0.27	0.8	1				<	0.32	0.8	1	U
1,1-Dichloroethane	-	0 / 15				<	U	0.22	0.8	1				<	0.16	0.8	1	U
1,1-Dichloroethene	-	0 / 15				<	U	0.23	0.8	1				<	0.14	0.8	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	U	0.21	0.8	1				<	0.18	0.8	1	U
1,2,4-Trichlorobenzene	-	0 / 13				<	U	0.21	0.8	1				<	0.32	0.8	1	U
1,2-Dibromo-3-chloropropane	-	0 / 13				<	U	0.47	1.6	5				<	0.81	1.6	5	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	U	0.18	0.4	1				<	0.18	0.4	1	U
1,2-Dichlorobenzene	-	0 / 13				<	U	0.15	0.4	1				<	0.13	0.4	1	U
1,2-Dichloroethane	2	3 / 15	**Not Sampled**			<	U	0.13	0.4	1	**Not Sampled**			<	0.13	0.4	1	U
1,2-Dichloropropane	-	0 / 15	**in 2020, 2021**			<	U	0.18	0.4	1	**in 2017, 2018**			<	0.13	0.4	1	U
1,3-Dichlorobenzene	-	0 / 13				<	U	0.13	0.4	1				<	0.16	0.4	1	U
1,4-Dichlorobenzene	-	0 / 13				<	U	0.16	0.4	1				<	0.16	0.4	1	U
2-Butanone	-	0 / 15				<	U	2	4	6				<	1.8	4	6	U
2-Hexanone	-	0 / 15				<	U	1.7	4	5				<	1.4	4	5	U
4-Methyl-2-pentanone	-	0 / 15				<	U	0.98	3.2	5				<	1	3.2	5	U
Acetone	2.4 J	1 / 14				<	U	1.9	6.4	10				2.4	1.9	6.4	10	J
Benzene	0.81	1 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Bromochloromethane	-	0 / 4				<	U	0.1	0.2	1				<	0.1	0.2	1	U
Bromodichloromethane	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Bromoform	-	0 / 15				<	U	0.46	1	1				<	0.19	0.4	1	U
Bromomethane	-	0 / 15				<	U	0.21	0.8	2				<	0.21	0.8	2	U
Carbon Disulfide	-	0 / 14				<	U	0.17	0.8	2				<	0.45	1.6	2	U
Carbon Tetrachloride	-	0 / 15				<	U	0.19	0.4	2				<	0.19	0.4	2	U
Chlorobenzene	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Chloroethane	-	0 / 15				<	U	0.41	1.6	2				<	0.41	1.6	2	U
Chloroform	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Chloromethane	-	0 / 15				<	U	0.3	0.8	2				<	0.3	0.8	2	U
cis-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1				<	0.15	0.4	1	U
cis-1,3-Dichloropropene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04					SHGW04			SHGW04				
METHOD	Maximum	Detection	8260B			8260B					8260B			8260B				
COLLECT DATE	Detection	Frequency	None			6/6/2019					None			8/15/2016				
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual
Cyclohexane	-	0 / 13				<	U	0.28	0.8	2				<	0.28	0.8	2	U
Dibromochloromethane	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	U	0.31	0.8	2				<	0.31	0.8	2	U
Ethylbenzene	-	0 / 15				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Isopropylbenzene	-	0 / 13				<	U	0.19	0.4	1				<	0.19	0.4	1	U
Methyl Acetate	-	0 / 13				<	U	1.6	4	5				<	1.6	4	5	U
Methylcyclohexane	-	0 / 13				<	U	0.1	0.4	2				<	0.25	0.8	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	U	0.25	0.8	5				<	0.36	0.8	2	U
Methylene Chloride	-	0 / 15				<	U	0.94	2	5				<	0.32	0.8	5	U
Styrene	-	0 / 15	**Not Sampled**			<	U	0.36	0.8	1	**Not Sampled**			<	0.17	0.4	1	U
Tetrachloroethene	-	0 / 15	**in 2020, 2021**			<	U	0.2	0.4	1	**in 2017, 2018**			<	0.2	0.4	1	U
Toluene	-	0 / 15				<	U	0.17	0.4	1				<	0.17	0.4	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	U	0.15	0.4	1				<	0.15	0.4	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	U	0.19	0.4	1				<	0.19	0.4	1	U
Trichloroethene	-	0 / 13				<	U	0.16	0.4	1				<	0.16	0.4	1	U
Trichlorofluoromethane	-	0 / 13				<	U	0.29	0.8	2				<	0.29	0.8	2	U
Vinyl Chloride	-	0 / 15				<	U	0.1	0.2	1.5				<	0.1	0.2	1.5	U
Xylenes (total)	-	0 / 13				<	U	0.19	0.8	1				<	0.19	0.8	2	U
2-Chloroethyl Vinyl Ether	-	0 / 2						NA								NA		
Bromoethane	-	0 / 2						NA								NA		
m,p-Xylene	0.58	1 / 2						NA								NA		
O-Xylene	-	0 / 2						NA								NA		
Vinyl Acetate	-	0 / 2						NA								NA		
NATURAL ATTENUATION PARAMETERS																		
Methane RSK-175 (µg/L)						840		0.63	2	5				390	0.22	0.8	5	
Ethane RSK-175 (µg/L)			**Not Sampled**			<	U	0.57	1.5	5	**Not Sampled**			<	0.57	1.5	5	U
Ethene RSK-175 (µg/L)			**in 2020, 2021**			<	U	0.4	1.4	5	**in 2017, 2018**			<	0.4	1.4	5	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						0.032	J	0.019	0.05	0.1				0.56	0.019	0.05	0.1	
Alkalinity SM 2320B (mg/L)						190		3.1	10	10				200	1.1	3.2	5	
Sulfate USEPA 300.1 (mg/L)						13		1	3	5				30	0.23	0.5	5	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)			**Not Sampled**								**Not Sampled**							
Diesel Range Organics			**in 2020, 2021**			0.73	J	0.032	0.12	0.24	**in 2017, 2018**			0.95	0.031	0.12	0.24	

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04					SHGW04			SHGW04				
METHOD	Maximum	Detection	8260B			8260B					8260B			8260B				
COLLECT DATE	Detection	Frequency	None			6/6/2019					None			8/15/2016				
			Result	RL	Qual	Result	Qual	DL	LOD	LOQ	Result	RL	Qual	Result	DL	LOD	LOQ	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 13				<	1	U	<	1	U				<	3	U	<	1	U
1,1,2-Trichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1-Dichloroethane	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
1,1-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4				<	2	U	<	2	U					NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dibromo-3-chloropropane	-	0 / 13				<	2	U	<	2	U				<	5	U	<	1	U
1,2-Dibromoethane (EDB)	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dichlorobenzene	-	0 / 13				<	1	U	<	1	U				<	1	U	<	1	U
1,2-Dichloroethane	2	3 / 15	**Not Sampled**			<	0.5	U	<	0.5	U	**Not Sampled**			<	1	U	<	1	U
1,2-Dichloropropane	-	0 / 15	**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	1	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13				<	2	U	<	2	U				<	1	U	<	1	U
1,4-Dichlorobenzene	-	0 / 13				<	3	U	<	3	U				<	1	U	<	1	U
2-Butanone	-	0 / 15				<	4	U	<	4	U				<	6	U	<	1	U
2-Hexanone	-	0 / 15				<	4	U	<	4	U				<	5	U	<	5	U
4-Methyl-2-pentanone	-	0 / 15				<	4	U	<	4	U				<	5	U	<	5	U
Acetone	2.4 J	1 / 14				<	10	U	<	10	UJ				<	10	U	<	5	UJ
Benzene	0.81	1 / 15				<	0.5	U	0.81	0.5					<	1	U	<	1	U
Bromochloromethane	-	0 / 4				<	1	U	<	1	U					NA			NA	
Bromodichloromethane	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Bromoform	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Bromomethane	-	0 / 15				<	1	U	<	1	U				<	2	U	<	1	U
Carbon Disulfide	-	0 / 14				<	1	U	<	1	U				<	2	U	<	1	U
Carbon Tetrachloride	-	0 / 15				<	0.5	U	<	0.5	U				<	2	U	<	1	U
Chlorobenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Chloroethane	-	0 / 15				<	2	U	<	1.4	U				<	2	U	<	1	U
Chloroform	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Chloromethane	-	0 / 15				<	1	U	<	1	U				<	2	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
cis-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	1	U
Dibromochloromethane	-	0 / 15				<	0.26	U	<	0.26	U				<	1	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13				<	1.2	U	<	1.2	U				<	2	U	<	1	U
Ethylbenzene	-	0 / 15				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Isopropylbenzene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Methyl Acetate	-	0 / 13				<	1	U	<	1	U				<	5	U	<	2	U
Methylcyclohexane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	5	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13				<	1	U	<	1	U				<	5	U	<	5	U
Methylene Chloride	-	0 / 15				<	5	U	<	1	U				<	5	U	<	1	U
Styrene	-	0 / 15	**Not Sampled**			<	1	U	<	1	U	**Not Sampled**			<	1	U	<	1	U
Tetrachloroethene	-	0 / 15	**in 2014, 2015**			<	0.5	U	<	0.5	U	**in 2011**			<	1	U	<	1	U
Toluene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15				<	0.66	U	<	0.66	U				<	1	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15				<	1	U	<	1	U				<	1	U	<	1	U
Trichloroethene	-	0 / 13				<	0.5	U	<	0.5	U				<	1	U	<	1	U
Trichlorofluoromethane	-	0 / 13				<	1	U	<	1	U				<	2	U	<	1	U
Vinyl Chloride	-	0 / 15				<	1	U	<	1	U				<	1.5	U	<	1	U
Xylenes (total)	-	0 / 13					NA			NA					<	1	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2					NA			NA						NA		<	5	U
Bromoethane	-	0 / 2					NA			NA						NA		<	1	U
m,p-Xylene	0.58	1 / 2				<	0.46	U	0.58	0.46						NA			NA	
O-Xylene	-	0 / 2				<	1	U	<	5	U					NA			NA	
Vinyl Acetate	-	0 / 2					NA			NA						NA		<	1	U
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)						14	5		68	5					19	5		6.7	0.31	
Ethane RSK-175 (µg/L)			**Not Sampled**			<	1.2	U	<	1.2	U	**Not Sampled**			<	5	U	<	0.61	U
Ethene RSK-175 (µg/L)			**in 2014, 2015**			<	1	U	<	1	U	**in 2011**			<	5	U	<	0.76	U
Nitrate/Nitrite USEPA 353.2 (mg/L)						1.66	0.1		<	0.1	U				6	0.1		6.4	0.25	
Alkalinity SM 2320B (mg/L)						230	1.25		240	1.25					140	5		140	20	
Sulfate USEPA 300.1 (mg/L)						30.6	1		42.3	1					70	25		390	20	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)			**Not Sampled**									**Not Sampled**								
Diesel Range Organics			**in 2014, 2015**			0.41	0.15		2.3	0.15		**in 2011**			0.86	0.24		0.15	0.08	

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	None			3/15/2013			3/8/2012			None			3/2/2010			3/9/2009		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/11/2008			3/19/2007			3/30/2006			3/24/2005			3/25/2004			3/26/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)																				
1,1,1-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1,2-Trichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1-Dichloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,1-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA			NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dibromo-3-chloropropane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dibromoethane (EDB)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,2-Dichloroethane	2	3 / 15	<	1	U	<	1	U	<	1	U	1.3	3	J	2	1		1.3	1.0	
1,2-Dichloropropane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,3-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
1,4-Dichlorobenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
2-Butanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
2-Hexanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
4-Methyl-2-pentanone	-	0 / 15	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
Acetone	2.4 J	1 / 14	<	5	U	<	5	U	<	5	U	<	10	U	<	2	U	<	2.0	UJ
Benzene	0.81	1 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Bromochloromethane	-	0 / 4		NA			NA			NA			NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Bromoform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Bromomethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	UJ
Carbon Disulfide	-	0 / 14	<	1	U	<	1	U	<	1	U	<	3	U	<	2	U	<	2.0	U
Carbon Tetrachloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chlorobenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chloroethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chloroform	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Chloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
cis-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
cis-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/11/2008			3/19/2007			3/30/2006			3/24/2005			3/25/2004			3/26/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Dibromochloromethane	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	1	U	<	1	U	<	1.0	U
Ethylbenzene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Isopropylbenzene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Methyl Acetate	-	0 / 13	<	5	U	<	5	U	<	5	U	<	3	U	<	1	U	<	1.0	U
Methylcyclohexane	-	0 / 13	<	5	U	<	5	U	<	5	U	<	3	U	<	1	U	<	1.0	U
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Methylene Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Styrene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Tetrachloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	UJ	<	1	U	<	1.0	U
Toluene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
trans-1,2-Dichloroethene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
trans-1,3-Dichloropropene	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Trichloroethene	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Trichlorofluoromethane	-	0 / 13	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Vinyl Chloride	-	0 / 15	<	1	U	<	1	U	<	1	U	<	3	U	<	1	U	<	1.0	U
Xylenes (total)	-	0 / 13	<	2	U	<	2	U	<	2	U	<	3	U	<	1	U	<	1.0	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA			NA			NA			NA			NA			NA	
Bromoethane	-	0 / 2		NA			NA			NA			NA			NA			NA	
m,p-Xylene	0.58	1 / 2		NA			NA			NA			NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA			NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA			NA			NA			NA			NA			NA	
NATURAL ATTENUATION PARAMETERS																				
Methane RSK-175 (µg/L)			66	1.7		420	0.87		420	0.87		610	0.87	J	230	2			NA	
Ethane RSK-175 (µg/L)			<	3.5	U	<	3.5	U	3.4	3.5	J	<	1.7	U	<	4	U		NA	
Ethene RSK-175 (µg/L)			<	1.8	U	<	1.8	U	<	1.8	U	<	1.8	U	<	3	U		NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			0.35	0.05		<	0.05	U	<	0.05	U	<	0.05	U	0.13	0.1		0.071	0.10	J
Alkalinity SM 2320B (mg/L)			180	2		290	8		250	8		290	8		290	5		290	5.0	
Sulfate USEPA 300.1 (mg/L)			14	10		13	10		14	1		14	1	0	10	2		16	5.0	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)																				
Diesel Range Organics			0.37	0.13		0.6	0.13		0.65	0.13	J	1.0	0.12		0.8	0.12			NA	

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B			8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/11/2008			3/19/2007			3/30/2006			3/24/2005			3/25/2004			3/26/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)											
1,1,1-Trichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1,2,2-Tetrachloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0 / 13	<	1.0	U		NA			NA	
1,1,2-Trichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,1-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,2,3-Trichlorobenzene	-	0 / 4		NA			NA			NA	
1,2,4-Trichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dibromo-3-chloropropane	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dibromoethane (EDB)	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,2-Dichloroethane	2	3 / 15	<	1.0	U	<	5	U	<	1	U
1,2-Dichloropropane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
1,3-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
1,4-Dichlorobenzene	-	0 / 13	<	1.0	U		NA			NA	
2-Butanone	-	0 / 15	<	5.0	U	<	50	U	<	20	U
2-Hexanone	-	0 / 15	<	5.0	U	<	50	U	<	20	U
4-Methyl-2-pentanone	-	0 / 15	<	5.0	U	<	50	U	<	10	U
Acetone	2.4 J	1 / 14	<	5.0	UJ	<	50	U			R
Benzene	0.81	1 / 15	<	1.0	U	<	5	U	<	1	U
Bromochloromethane	-	0 / 4		NA			NA			NA	
Bromodichloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromoform	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Bromomethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Carbon Disulfide	-	0 / 14	<	5.0	U		NA		<	1	U
Carbon Tetrachloride	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chlorobenzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloroethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloroform	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Chloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
cis-1,2-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
cis-1,3-Dichloropropene	-	0 / 15	<	1.0	U	<	5	U	<	1	U

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Cyclohexane	-	0 / 13	<	1.0	U		NA			NA	
Dibromochloromethane	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Dichlorodifluoromethane (Freon® 12)	-	0 / 13	<	1.0	U		NA			NA	
Ethylbenzene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Isopropylbenzene	-	0 / 13	<	1.0	U		NA			NA	
Methyl Acetate	-	0 / 13	<	1.0	U		NA			NA	
Methylcyclohexane	-	0 / 13	<	1.0	U		NA			NA	
Methyl tert-Butyl Ether (MTBE)	-	0 / 13	<	1.0	U		NA			NA	
Methylene Chloride	-	0 / 15	<	1.0	U	<	10	U	<	1	U
Styrene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Tetrachloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Toluene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
trans-1,2-Dichloroethene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
trans-1,3-Dichloropropene	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Trichloroethene	-	0 / 13	<	1.0	U		NA			NA	
Trichlorofluoromethane	-	0 / 13	<	1.0	U		NA			NA	
Vinyl Chloride	-	0 / 15	<	1.0	U	<	5	U	<	1	U
Xylenes (total)	-	0 / 13	<	1.0	U	<	5	U	<	1	U
2-Chloroethyl Vinyl Ether	-	0 / 2		NA		<	5	U		NA	
Bromoethane	-	0 / 2		NA			NA		<	1	U
m,p-Xylene	0.58	1 / 2		NA			NA			NA	
O-Xylene	-	0 / 2		NA			NA			NA	
Vinyl Acetate	-	0 / 2		NA		<	5	U		NA	
NATURAL ATTENUATION PARAMETERS											
Methane RSK-175 (µg/L)				NA			NA			NA	
Ethane RSK-175 (µg/L)				NA			NA			NA	
Ethene RSK-175 (µg/L)				NA			NA			NA	
Nitrate/Nitrite USEPA 353.2 (mg/L)			0.334	0.10		<	0.5	U	<	0.5	U
Alkalinity SM 2320B (mg/L)			200	5.0		290	5		225	5	
Sulfate USEPA 300.1 (mg/L)			18	5.0		21.9	5		28.4	5	
TOTAL PETROLEUM HYDROCARBONS (Method M8015B) (mg/L)											
Diesel Range Organics				NA			NA			NA	

TABLE E.4-6
CORNHUSKER ARMY AMMUNITION PLANT
WELL SHGW04-VOCs, TPHs, AND NATURAL ATTENUATION PARAMETERS

FIELD ID			SHGW04			SHGW04			SHGW04		
METHOD	Maximum	Detection	8260B			8260B			8260B		
COLLECT DATE	Detection	Frequency	3/27/2002			4/3/2001			3/27/2000		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual

Notes:
Analysis methods listed are accurate for most current
sampling event. Previous analysis methods may be different.

< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
mg/L = milligrams per liter
NA = not analyzed
Qual = qualifier
RL = reporting limit
SM = Standard Method
RSK = Robert S. Kerr Environmental Research Laboratory
TPH = total petroleum hydrocarbons
U = nondetect
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

TABLE E.4-7a
CORNHUSKER ARMY AMMUNITION PLANT
WELL WB10 (SHOP AREA WELL 003)-EXPLOSIVES

FIELD ID			WB10-Shop Area Well 003			WB10-Shop Area Well 003			WB10-Shop Area Well 003			WB12			WB11			WB10		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330			SW846 M8330		
COLLECT DATE	Detection	Frequency	None			1/24/2004			2/13/2003			2/20/2002			2/22/2001			2/22/2001		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0/14				<	0.31	U	<	0.8	U	<	0.29	U	<	0.8	U	<	0.8	U
1,3-Dinitrobenzene	-	0/14				<	0.21	U	<	0.8	U	<	0.29	U	<	0.8	U	<	0.8	U
2,4,6-Trinitrotoluene	-	0/14				<	0.26	U	<	0.8	U	<	0.29	U	<	0.8	U	<	0.8	U
2,4-Dinitrotoluene	-	0/14				<	0.21	U	<	0.8	U	<	0.29	U	<	0.8	U	<	0.8	U
2,6-Dinitrotoluene	-	0/14				<	0.81	U	<	0.8	U	<	0.57	U	<	0.8	U	<	0.8	U
2-Amino-4,6-dinitrotoluene	-	0/14	**Not Sampled in 2005**			<	0.33	U	<	0.8	U	<	0.57	U	<	0.8	U	<	0.8	U
2-Nitrotoluene	-	0/14	**through 2021**			<	0.64	U	<	0.8	U	<	0.57	U	<	0.8	U	<	0.8	U
3-Nitrotoluene	-	0/14				<	0.4	U	<	0.8	U	<	0.57	U	<	0.8	U	<	0.8	U
4-Amino-2,6-dinitrotoluene	-	0/14				<	0.55	U	<	0.8	U	<	0.57	U	<	0.8	U	<	0.8	U
4-Nitrotoluene	-	0/14				<	1.3	U	<	0.8	U	<	1.4	U	<	0.8	U	<	0.8	U
HMX	-	0/14				<	0.88	U	<	1	U	<	0.72	U	<	1	U	<	1	U
Nitrobenzene	-	0/14				<	0.36	U	<	0.8	U	<	0.29	U	<	0.8	U	<	0.8	U
RDX	-	0/14				<	0.52	U	<	0.8	U	<	0.29	U	<	0.8	U	<	0.8	U
Tetryl	-	0/14				<	0.86	U	<	0.8	U	<	0.57	U	<	0.8	U	<	0.8	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.4-7a
CORNHUSKER ARMY AMMUNITION PLANT
WELL WB10 (SHOP AREA WELL 003)-EXPLOSIVES

FIELD ID			WB9			WB8			WB7			WB6			WB5			WB4		
METHOD	Maximum	Detection	SW846 M8330			SW846 M8330			SW846 M8330			UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	11/30/1999			2/16/1999			2/16/1999			3/19/1998			3/19/1998			9/9/1997		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)																				
1,3,5-Trinitrobenzene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	1.00	U	<	0.13	U
1,3-Dinitrobenzene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.99	U
2,4,6-Trinitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.29	U
2,4-Dinitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.23	U
2,6-Dinitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.17	U
2-Nitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	1.00	U	<	0.32	U
3-Nitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	1.00	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	1.00	U	<	0.31	U
4-Nitrotoluene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	1.00	U	<	0.37	U
HMX	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.16	U
Nitrobenzene	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.23	U
RDX	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	1.00	U	<	1.00	U	<	0.56	U
Tetryl	-	0/14	<	0.8	U	<	0.8	U	<	0.8	U	<	0.500	U	<	0.500	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.4-7a
CORNHUSKER ARMY AMMUNITION PLANT
WELL WB10 (SHOP AREA WELL 003)-EXPLOSIVES

FIELD ID			WB3			WB2			WB1		
METHOD	Maximum	Detection	UW51			UW51			UW51		
COLLECT DATE	Detection	Frequency	9/9/1997			11/18/1996			11/18/1996		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
EXPLOSIVES (µg/L)											
1,3,5-Trinitrobenzene	-	0/14	<	0.13	U	<	0.13	U	<	0.13	U
1,3-Dinitrobenzene	-	0/14	<	0.99	U	<	0.99	U	<	0.99	U
2,4,6-Trinitrotoluene	-	0/14	<	0.29	U	<	0.29	U	<	0.29	U
2,4-Dinitrotoluene	-	0/14	<	0.23	U	<	0.23	U	<	0.23	U
2,6-Dinitrotoluene	-	0/14	<	0.2	U	<	0.2	U	<	0.2	U
2-Amino-4,6-dinitrotoluene	-	0/14	<	0.17	U	<	0.17	U	<	0.17	U
2-Nitrotoluene	-	0/14	<	0.32	U	<	0.32	U	<	0.32	U
3-Nitrotoluene	-	0/14	<	0.51	U	<	0.51	U	<	0.51	U
4-Amino-2,6-dinitrotoluene	-	0/14	<	0.31	U	<	0.31	U	<	0.31	U
4-Nitrotoluene	-	0/14	<	0.37	U	<	0.37	U	<	0.37	U
HMX	-	0/14	<	0.16	U	<	0.16	U	<	0.16	U
Nitrobenzene	-	0/14	<	0.23	U	<	0.23	U	<	0.23	U
RDX	-	0/14	<	0.56	U	<	0.56	U	<	0.56	U
Tetryl	-	0/14	<	0.25	U	<	0.25	U	<	0.25	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
HMX = octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
ID = identification number
J = estimated
MNX = mono-nitroso-RDX
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
RL = reporting limit
U = nondetect

TABLE E.4-7b
CORNHUSKER ARMY AMMUNITION PLANT
WELL WB10 (SHOP AREA WELL 003)-VOCs

FIELD ID			WB10-Shop Area Well 003			WB10-Shop Area Well 003			WB10-Shop Area Well 003		
METHOD	Maximum	Detection	SW846 8260B			SW846 8260B			SW846 8260B		
COLLECT DATE	Detection	Frequency	None			1/24/2004			2/13/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (µg/L)											
1,1,1-Trichloroethane	-	0/2				<	1.0	U	<	1.0	U
1,1,2,2-Tetrachloroethane	-	0/2				<	1.0	U	<	1.0	U
1,1,2-Trichloroethane	-	0/2				<	1.0	U	<	1.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon® 113)	-	0/2				<	1.0	U	<	1.0	U
1,1-Dichloroethane	-	0/2				<	1.0	U	<	1.0	U
1,1-Dichloroethene	-	0/2				<	1.0	U	<	1.0	U
1,2,4-Trichlorobenzene	-	0/2				<	1.0	U	<	1.0	U
1,2-Dibromo-3-chloropropane	-	0/2	**Not Sampled in 2005**			<	1.0	U	<	1.0	U
1,2-Dibromoethane (EDB)	-	0/2	**through 2021**			<	1.0	U	<	1.0	U
1,2-Dichlorobenzene	-	0/2				<	1.0	U	<	1.0	U
1,2-Dichloroethane	-	0/2				<	1.0	U	<	1.0	U
1,2-Dichloropropane	-	0/2				<	1.0	U	<	1.0	U
1,3-Dichlorobenzene	-	0/2				<	1.0	U	<	1.0	U
1,4-Dichlorobenzene	-	0/2				<	1.0	U	<	1.0	U
2-Butanone	-	0/2				<	2.0	U	<	2.0	U
2-Hexanone	-	0/2				<	2.0	U	<	2.0	U
4-Methyl-2-pentanone	-	0/2				<	2.0	U	<	2.0	U
Acetone	-	0/2				<	2.0	U	<	2.0	U
Benzene	-	0/2				<	1.0	U	<	1.0	U
Bromodichloromethane	-	0/2				<	1.0	U	<	1.0	U
Bromoform	-	0/2				<	1.0	U	<	1.0	U
Bromomethane	-	0/2				<	1.0	U	<	1.0	U
Carbon Disulfide	-	0/2				<	2.0	U	<	2.0	U
Carbon Tetrachloride	-	0/2				<	1.0	U	<	1.0	U
Chlorobenzene	-	0/2				<	1.0	U	<	1.0	U
Chloroethane	-	0/2				<	1.0	U	<	1.0	U
Chloroform	-	0/2				<	1.0	U	<	1.0	U
Chloromethane	-	0/2				<	1.0	U	<	1.0	U
cis-1,2-Dichloroethene	-	0/2				<	1.0	U	<	1.0	U
cis-1,3-Dichloropropene	-	0/2				<	1.0	U	<	1.0	U
Cyclohexane	-	0/2				<	1.0	U	<	1.0	U

TABLE E.4-7b
CORNHUSKER ARMY AMMUNITION PLANT
WELL WB10 (SHOP AREA WELL 003)-VOCs

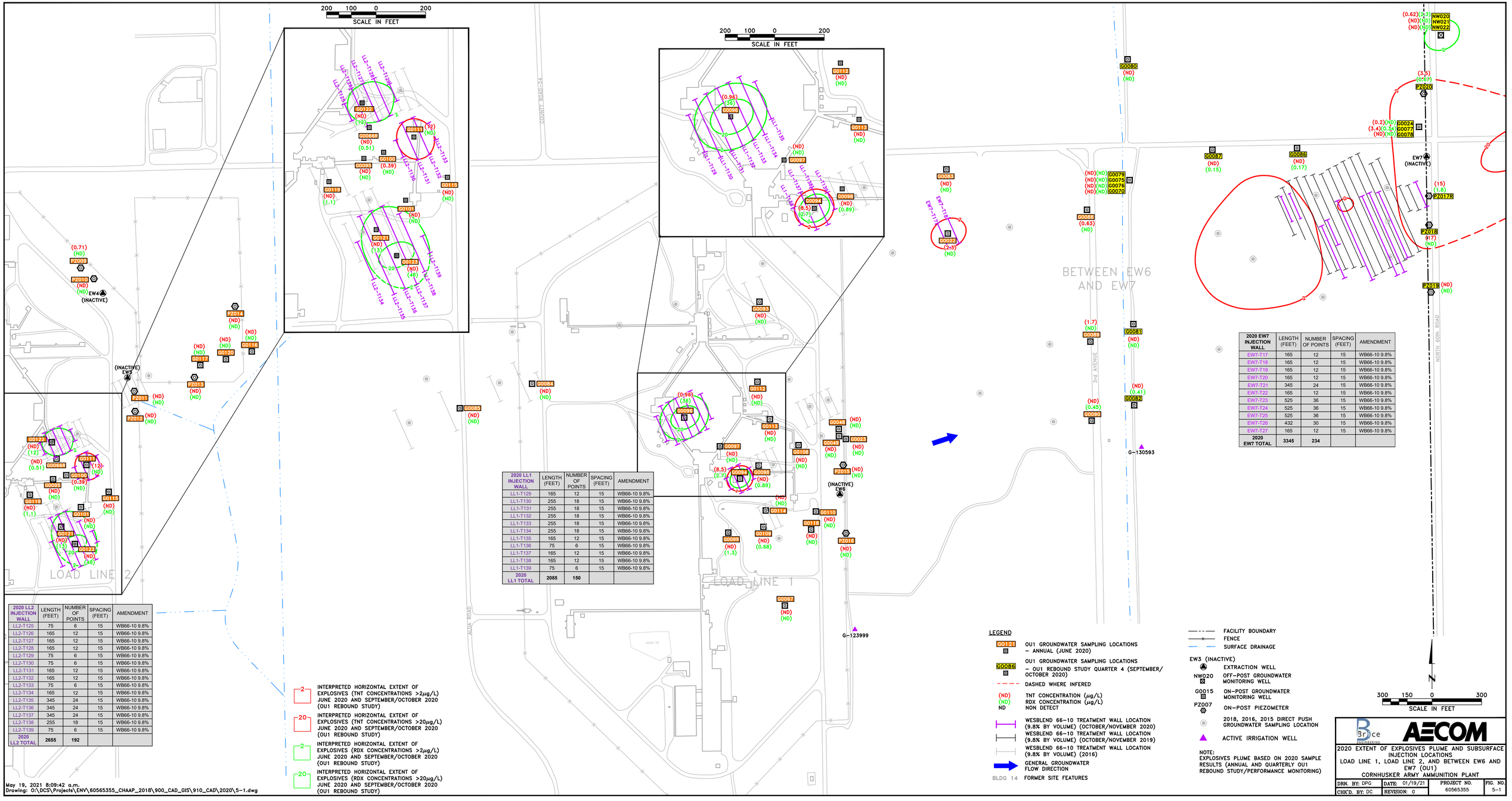
FIELD ID			WB10-Shop Area Well 003			WB10-Shop Area Well 003			WB10-Shop Area Well 003		
METHOD	Maximum	Detection	SW846 8260B			SW846 8260B			SW846 8260B		
COLLECT DATE	Detection	Frequency	None			1/24/2004			2/13/2003		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Dibromochloromethane	-	0/2				<	1.0	U	<	1.0	U
Dichlorodifluoromethane (Freon® 12)	-	0/2				<	1.0	U	<	1.0	U
Ethylbenzene	-	0/2				<	1.0	U	<	1.0	U
Isopropylbenzene	-	0/2				<	1.0	U	<	1.0	U
Methyl Acetate	-	0/2				<	1.0	U	<	1.0	U
Methylcyclohexane	-	0/2				<	1.0	U	<	1.0	U
Methylene Chloride	-	0/2				<	1.0	U	<	1.0	U
Methyl tert-Butyl Ether (MTBE)	-	0/2				<	1.0	U	<	1.0	U
Styrene	-	0/2	**Not Sampled in 2005**			<	1.0	U	<	1.0	U
Tetrachloroethene	-	0/2	**through 2021**			<	1.0	U	<	1.0	U
Toluene	-	0/2				<	1.0	U	<	1.0	U
Xylenes (total)	-	0/2				<	1.0	U	<	1.0	U
trans-1,2-Dichloroethene	-	0/2				<	1.0	U	<	1.0	U
trans-1,3-Dichloropropene	-	0/2				<	1.0	U	<	1.0	U
Trichloroethene	-	0/2				<	1.0	U	<	1.0	U
Trichlorofluoromethane	-	0/2				<	1.0	U	<	1.0	U
Vinyl Chloride	-	0/2				<	1.0	U	<	1.0	U

Notes:
< = less than reporting limit
µg/L = micrograms per liter
ID = identification number
J = estimated
NA = not analyzed
NRL = no reporting limit
Qual = qualifier
RL = reporting limit
U = nondetect

E.5 OU1 and OU3 Historical Plume Figures

Historical Figures

OU1 Historic Figures



2020 LL2 INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
LL2-T125	75	6	15	WB66-10 9.8%
LL2-T126	165	12	15	WB66-10 9.8%
LL2-T127	165	12	15	WB66-10 9.8%
LL2-T128	165	12	15	WB66-10 9.8%
LL2-T129	75	6	15	WB66-10 9.8%
LL2-T130	75	6	15	WB66-10 9.8%
LL2-T131	165	12	15	WB66-10 9.8%
LL2-T132	165	12	15	WB66-10 9.8%
LL2-T133	75	6	15	WB66-10 9.8%
LL2-T134	165	12	15	WB66-10 9.8%
LL2-T135	345	24	15	WB66-10 9.8%
LL2-T136	345	24	15	WB66-10 9.8%
LL2-T137	345	24	15	WB66-10 9.8%
LL2-T138	255	18	15	WB66-10 9.8%
LL2-T139	75	6	15	WB66-10 9.8%
2020 LL2 TOTAL	2655	192		

2020 LL1 INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
LL1-T129	165	12	15	WB66-10 9.8%
LL1-T130	255	18	15	WB66-10 9.8%
LL1-T131	255	18	15	WB66-10 9.8%
LL1-T132	255	18	15	WB66-10 9.8%
LL1-T133	255	18	15	WB66-10 9.8%
LL1-T134	255	18	15	WB66-10 9.8%
LL1-T135	165	12	15	WB66-10 9.8%
LL1-T136	75	6	15	WB66-10 9.8%
LL1-T137	165	12	15	WB66-10 9.8%
LL1-T138	165	12	15	WB66-10 9.8%
LL1-T139	75	6	15	WB66-10 9.8%
2020 LL1 TOTAL	2085	150		

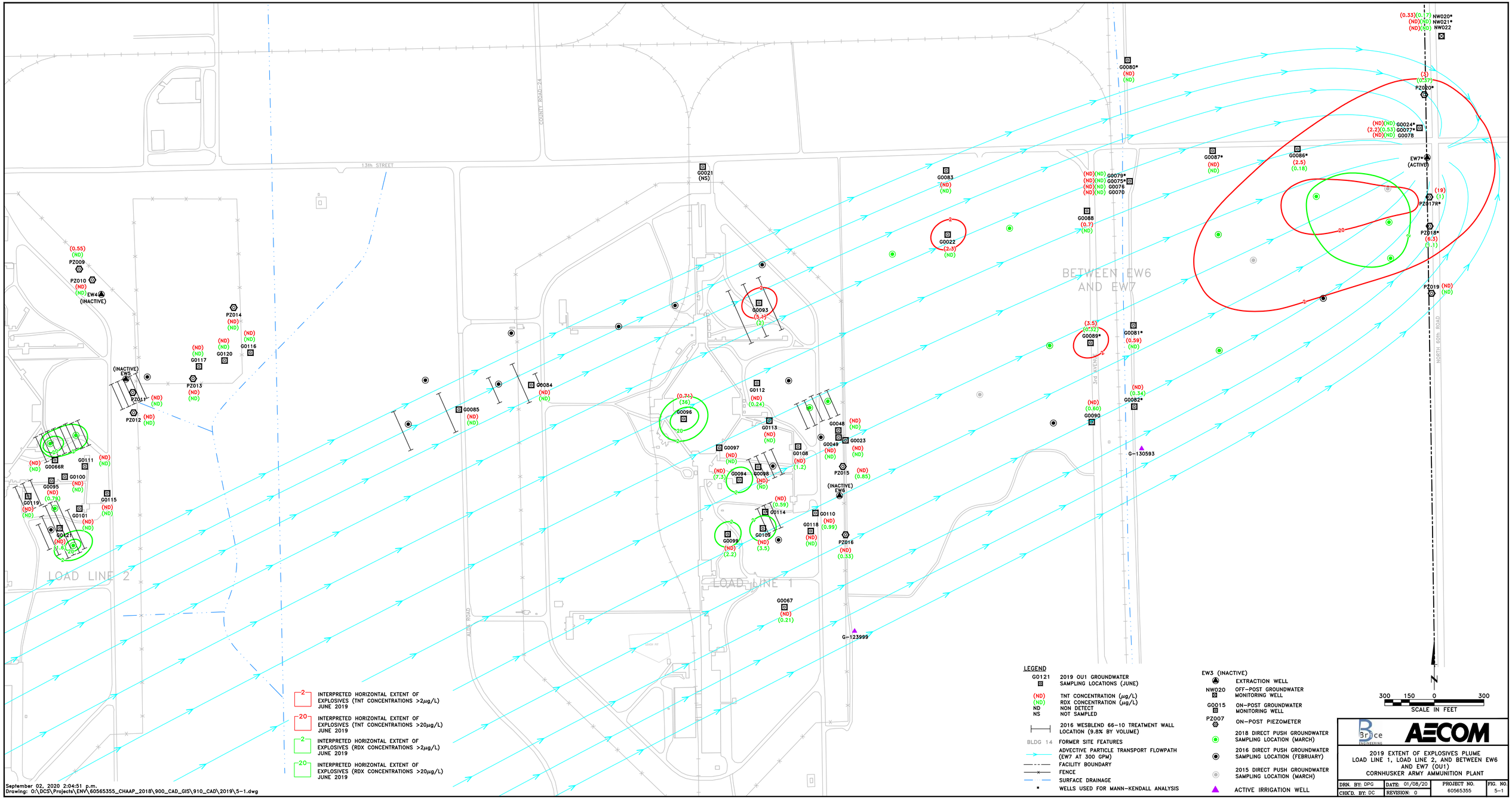
2020 EW7 INJECTION WALL	LENGTH (FEET)	NUMBER OF POINTS	SPACING (FEET)	AMENDMENT
EW7-T17	165	12	15	WB66-10 9.8%
EW7-T18	165	12	15	WB66-10 9.8%
EW7-T19	165	12	15	WB66-10 9.8%
EW7-T20	165	12	15	WB66-10 9.8%
EW7-T21	345	24	15	WB66-10 9.8%
EW7-T22	165	12	15	WB66-10 9.8%
EW7-T23	525	36	15	WB66-10 9.8%
EW7-T24	525	36	15	WB66-10 9.8%
EW7-T25	525	36	15	WB66-10 9.8%
EW7-T26	432	30	15	WB66-10 9.8%
EW7-T27	165	12	15	WB66-10 9.8%
2020 EW7 TOTAL	3345	234		

Brice Engineering | AECOM

2020 EXTENT OF EXPLOSIVES PLUME AND SUBSURFACE INJECTION LOCATIONS
LOAD LINE 1, LOAD LINE 2, AND BETWEEN EW6 AND EW7 (OU1)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/19/21	PROJECT NO. 60565355	FIG. NO. 5-1
CHK'D. BY: DC	REVISION: 0		

May 19, 2021 8:09:42 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2020\5-1.dwg

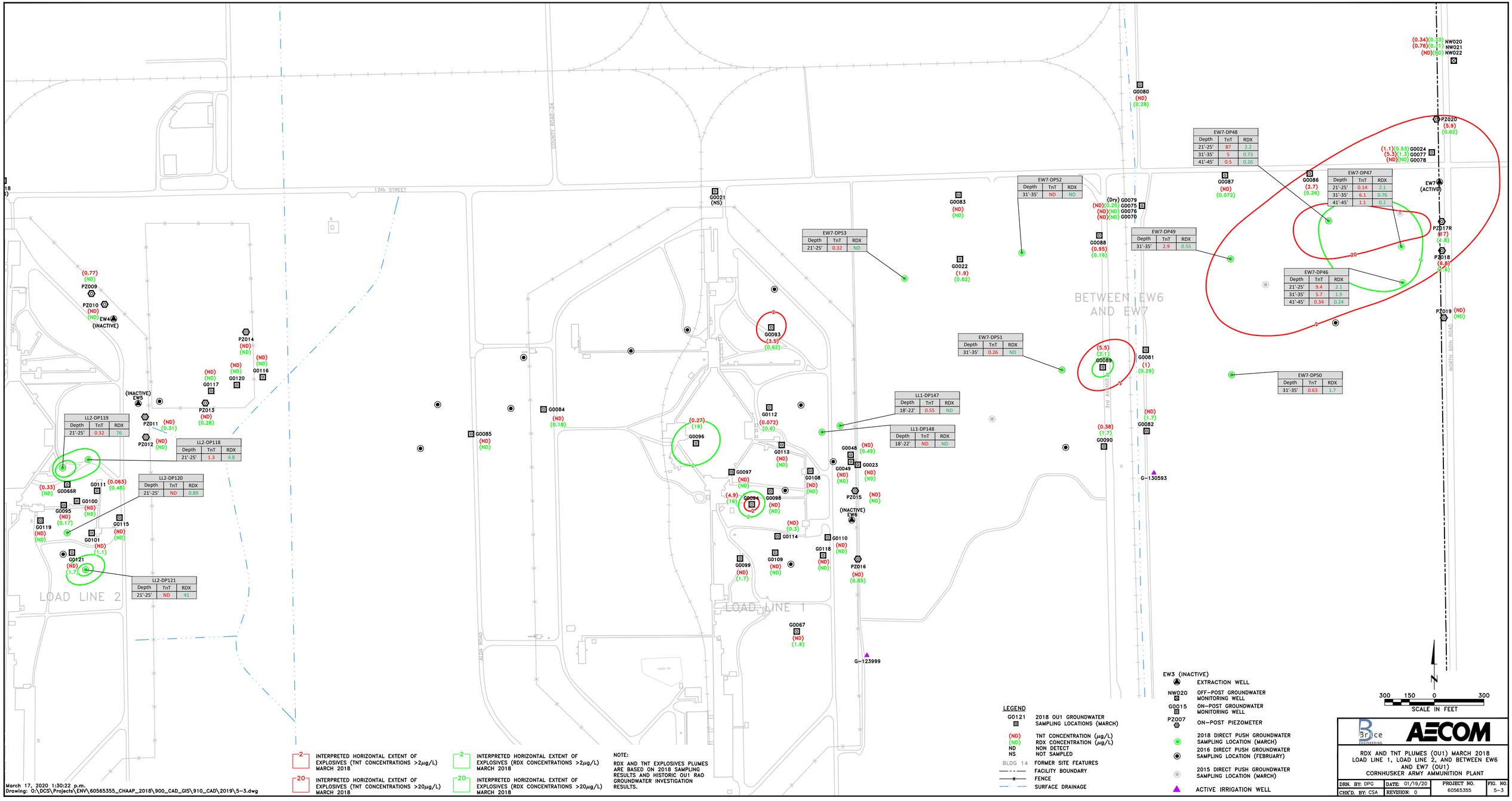


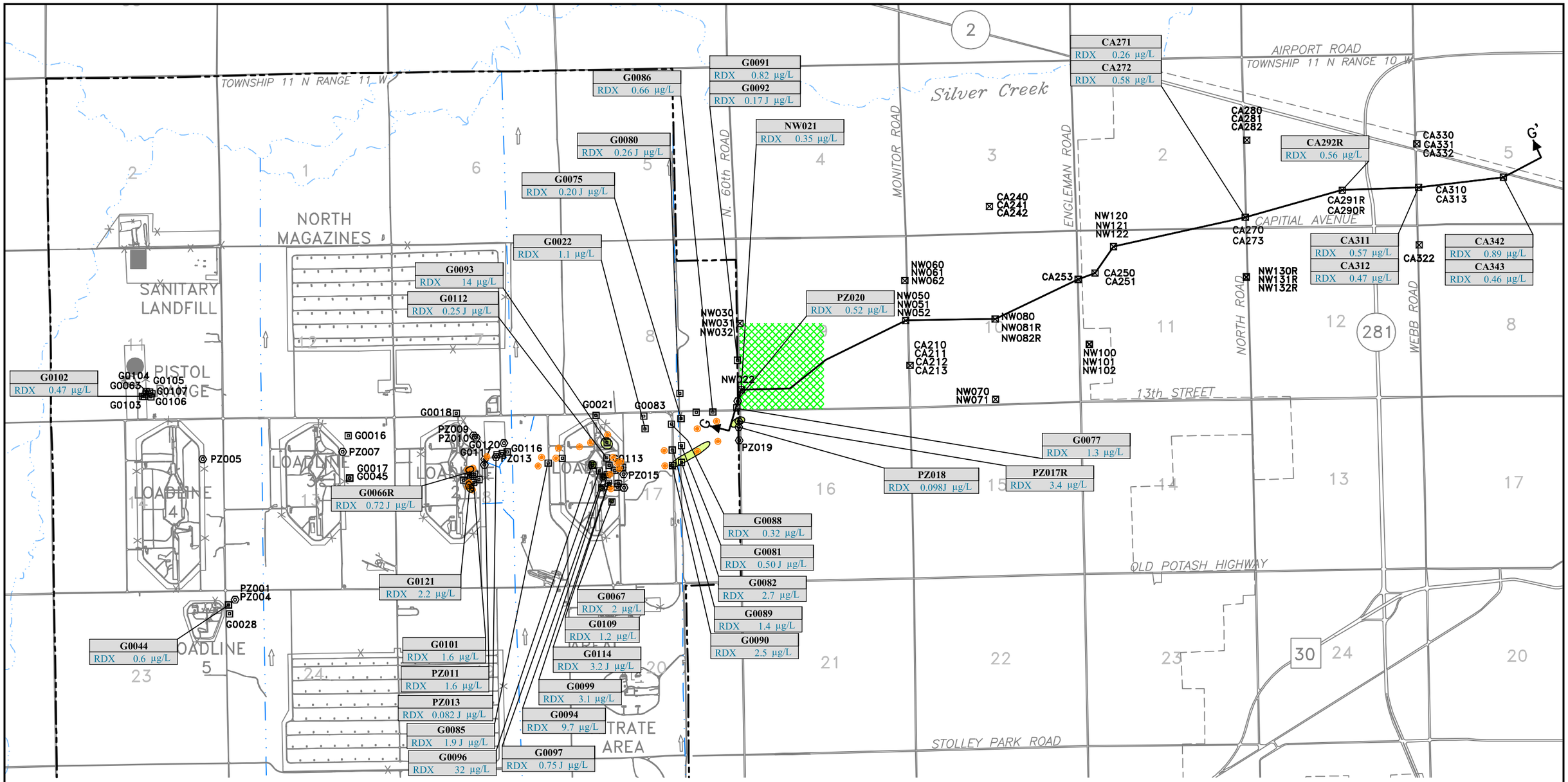
September 02, 2020 2:04:51 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-1.dwg

Bruce Engineering AECOM

2019 EXTENT OF EXPLOSIVES PLUME
LOAD LINE 1, LOAD LINE 2, AND BETWEEN EW6 AND EW7 (OU1)
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/08/20	PROJECT NO. 60565355	FIG. NO. 5-1
CHK'D. BY: DC	REVISION: 0		


13th STREET
COUNTY ROAD 24
AIDA ROAD
NORTH 80th ROAD
LOAD LINE 1
LOAD LINE 2
BETWEEN EW6 AND EW7
LEACH PIT
EW4 (INACTIVE)
EW5 (INACTIVE)
EW6 (INACTIVE)
EW7 (ACTIVE)
PZ009
PZ010
PZ011
PZ012
PZ013
PZ014
PZ015
PZ016
PZ017R
PZ018
PZ019
PZ020
G0021 (NS)
G0022 (1.9) (0.82)
G0023 (ND) (ND)
G0024 (1.1) (0.53)
G0048 (ND) (0.49)
G0049 (ND) (ND)
G0066R (0.33) (ND)
G0067 (ND) (1.9)
G0077 (5.3) (1.3)
G0078 (ND) (ND)
G0079 (Dry) (ND) (0.23)
G0080 (ND) (0.28)
G0081 (1) (0.29)
G0082 (ND) (1.7)
G0083 (ND) (ND)
G0084 (ND) (0.18)
G0085 (ND) (ND)
G0086 (2.7) (0.26)
G0087 (ND) (0.072)
G0088 (0.95) (0.16)
G0089 (5.5) (2.1)
G0090 (0.38) (1.7)
G0093 (3.3) (0.82)
G0094 (4.9) (16)
G0095 (ND) (0.17)
G0096 (0.27) (19)
G0097 (ND) (ND)
G0098 (ND) (ND)
G0099 (ND) (1.7)
G0100 (ND) (ND)
G0101 (ND) (1.1)
G0108 (ND) (ND)
G0109 (ND) (ND)
G0110 (ND) (ND)
G0111 (0.063) (0.48)
G0112 (0.072) (0.6)
G0113 (ND) (ND)
G0114 (ND) (0.3)
G0115 (ND) (ND)
G0116 (ND) (ND)
G0117 (ND) (ND)
G0118 (ND) (ND)
G0119 (ND) (ND)
G0120 (ND) (ND)
G0121 (ND) (1.7)
NW020 (0.34) (0.53)
NW021 (0.78) (0.21)
NW022 (ND) (ND)
G-123999
G-130593
(0.77) (ND)
(ND) (ND)
(ND) (ND)
(ND) (ND)
(ND) (0.31)
(ND) (ND)
(ND) (0.28)
(ND) (ND)
(ND) (ND)
(ND) (ND



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- DIRECT PUSH GROUNDWATER SAMPLE LOCATION (FEBRUARY 2016)
- D D' — GEOLOGIC CROSS SECTION
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–AUGUST 2016
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L)–AUGUST 2016
- FEEDLOT AREA
- PZ015 — DETECTED RDX CONCENTRATIONS – FEBRUARY/AUGUST 2016

J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
1. RDX PLUME BASED ON 2016 SAMPLING RESULTS AND HISTORIC OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS NOT SAMPLED.

N

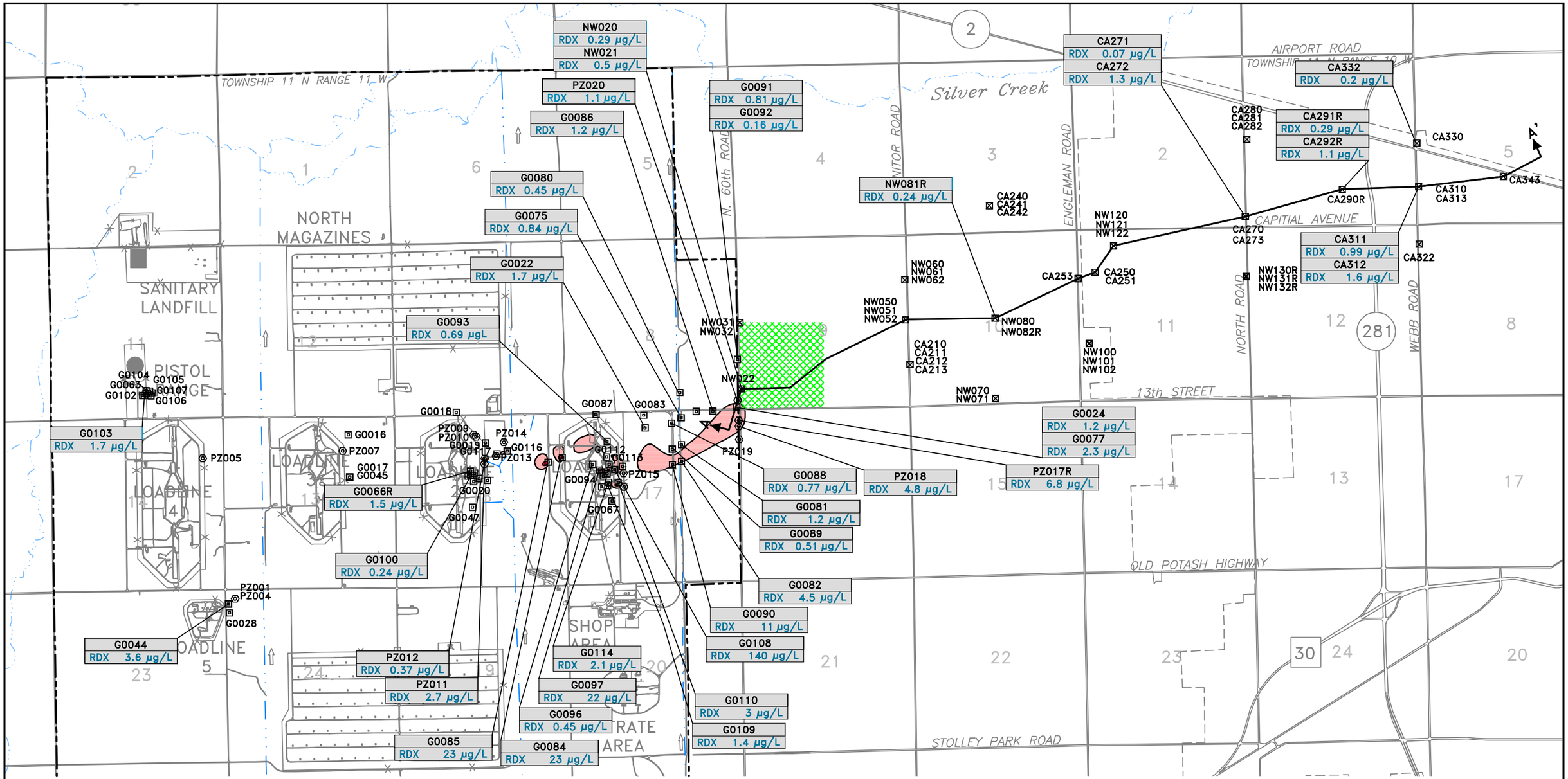
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) AUGUST 2016
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-4
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:15:31 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-4.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- A A' — GEOLOGIC CROSS SECTION
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–AUGUST 2014
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – AUGUST 2014
- FEEDLOT AREA
- PZ015 — DETECTED RDX CONCENTRATIONS – AUGUST 2014

J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
1. RDX PLUME BASED ON 2014 SAMPLING RESULTS AND HISTORIC OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS NOT SAMPLED.

N

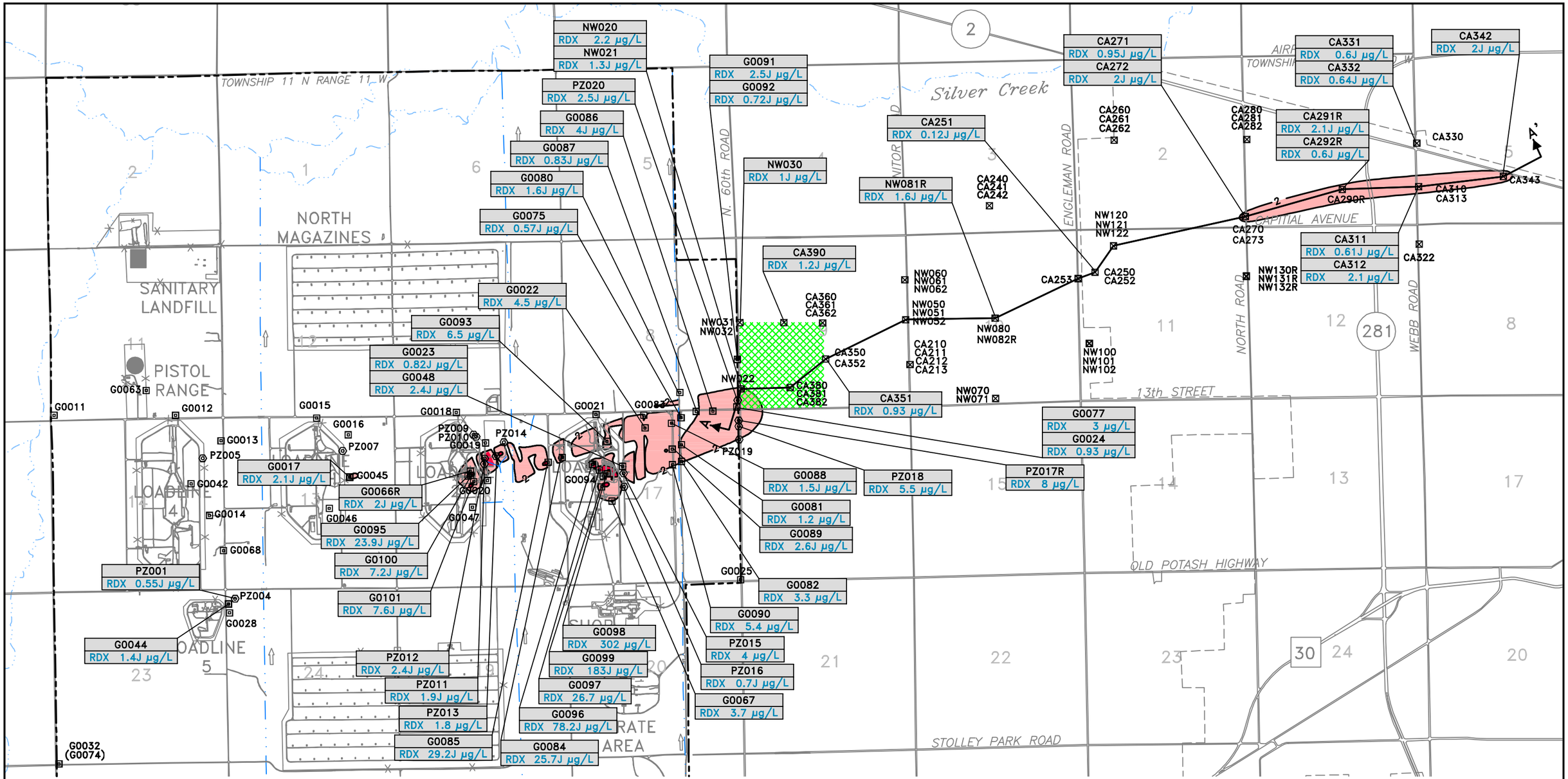
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) AUGUST 2014
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-5
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:16:26 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-5.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- A A' GEOLOGIC CROSS SECTION
- 2 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)-MARCH 2012
- 20 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) - MARCH 2012
- 200 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >200µg/L) - MARCH 2012
- FEEDLOT AREA
- PZ015 DETECTED RDX CONCENTRATIONS - MARCH 2012

J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
1. RDX PLUME BASED ON 2012 LTM RESULTS AND 2012 OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. GOO33 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
3. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS DRY.

N

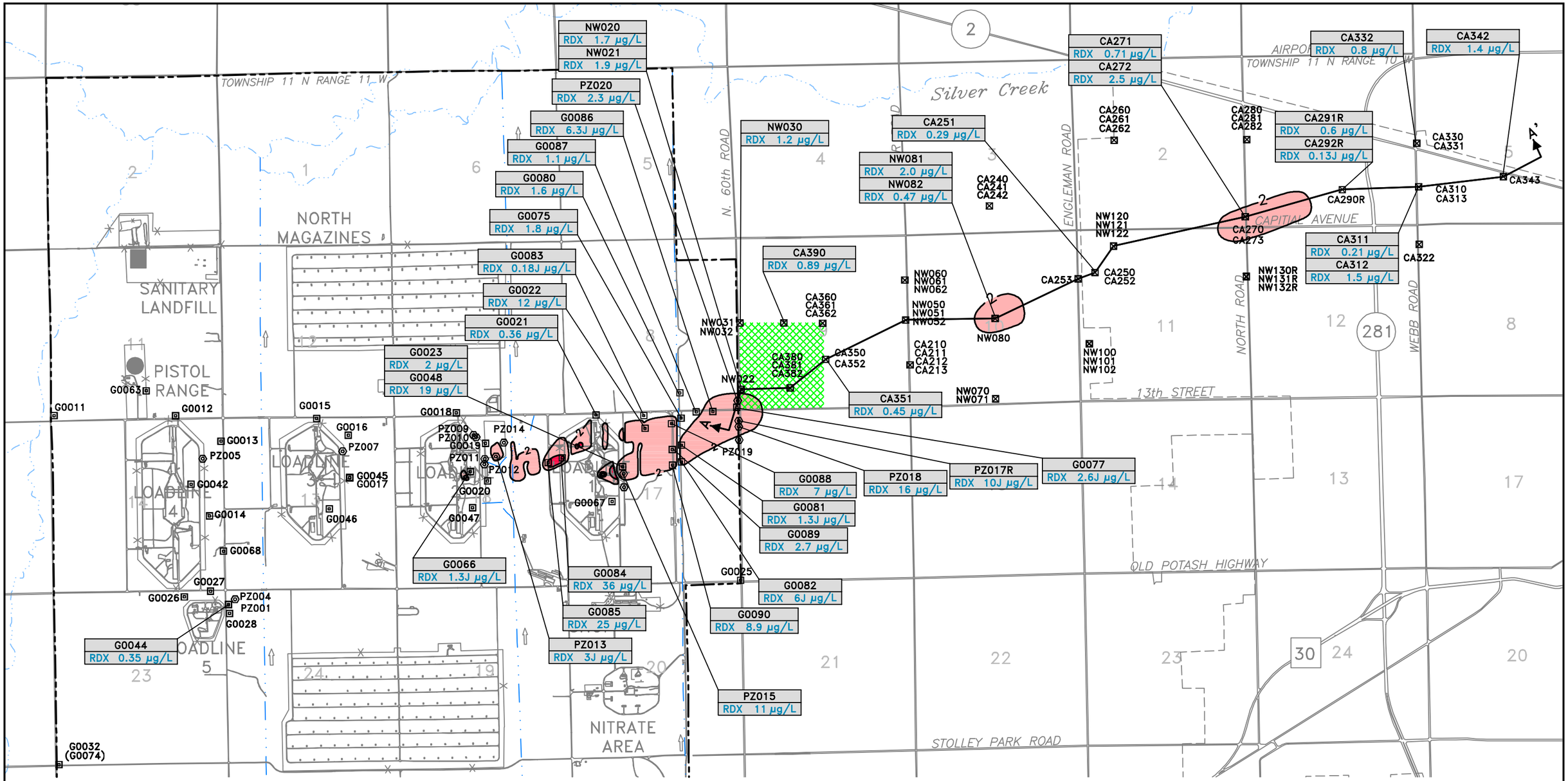
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) MARCH 2012
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-6
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:17:20 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-6.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- A A' — GEOLOGIC CROSS SECTION
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 2010
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 2010
- 200 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >200µg/L) – MARCH 2010
- FEEDLOT AREA
- PZ015 — DETECTED RDX CONCENTRATIONS – MARCH 2010

J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
1. RDX PLUME BASED ON 2010 LTM RESULTS AND 2010 OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. G0033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
3. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS DRY.

N

0 3000 6000

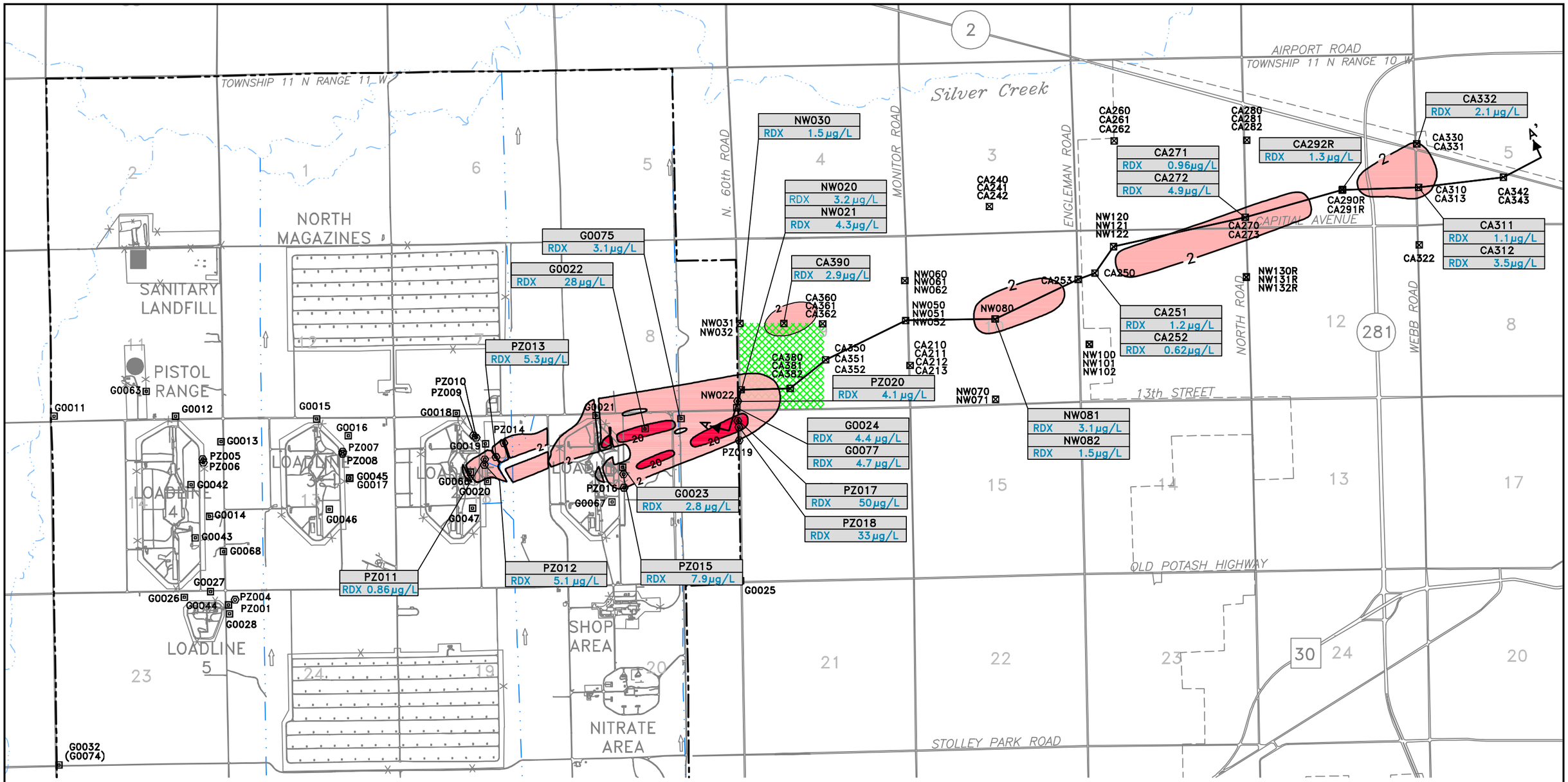
SCALE FEET

Bruce ENGINEERING AECOM

RDX PLUME (OU1) MARCH 2010 CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-7
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:18:14 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-7.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- A A' — GEOLOGIC CROSS SECTION
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 2008
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 2008
- FEEDLOT AREA
- PZ015 — DETECTED RDX CONCENTRATIONS – MARCH 2008

J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
1. RDX PLUME BASED ON 2008 LTM RESULTS AND 2008 OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. GOO33 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
3. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS DRY.

N

0 3000 6000

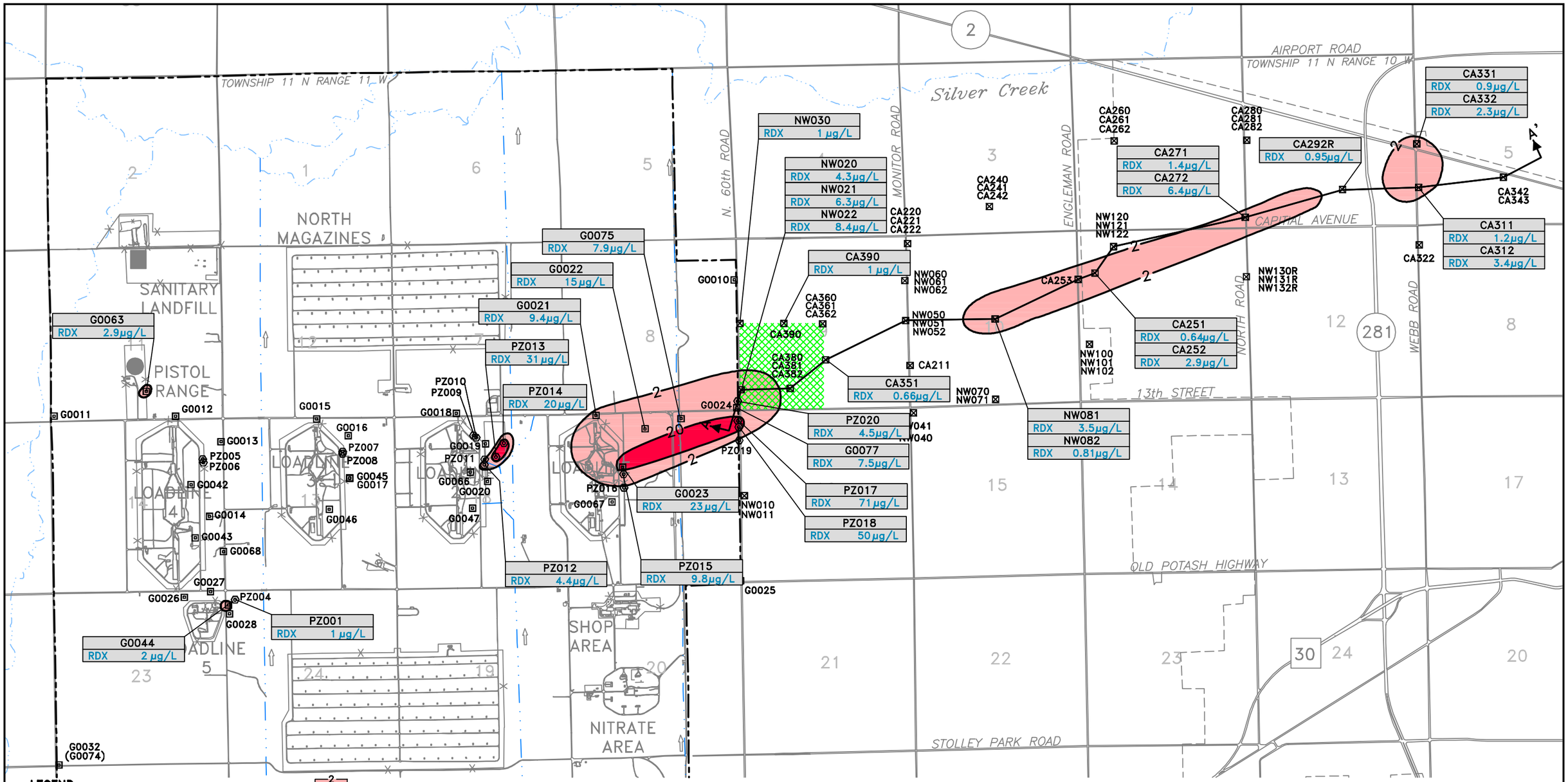
SCALE FEET

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) MARCH 2008
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-8
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:19:08 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-8.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- A A' — GEOLOGIC CROSS SECTION
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 2006
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 2006
- FEEDLOT AREA

NOTE:
1. GO033 IS NOT ANNOTATED ON THIS MAP. IT IS TO THE SOUTH OF THE SOUTH MAGAZINE AREA AND NO EXPLOSIVES WERE DETECTED.

2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS DRY.

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

N

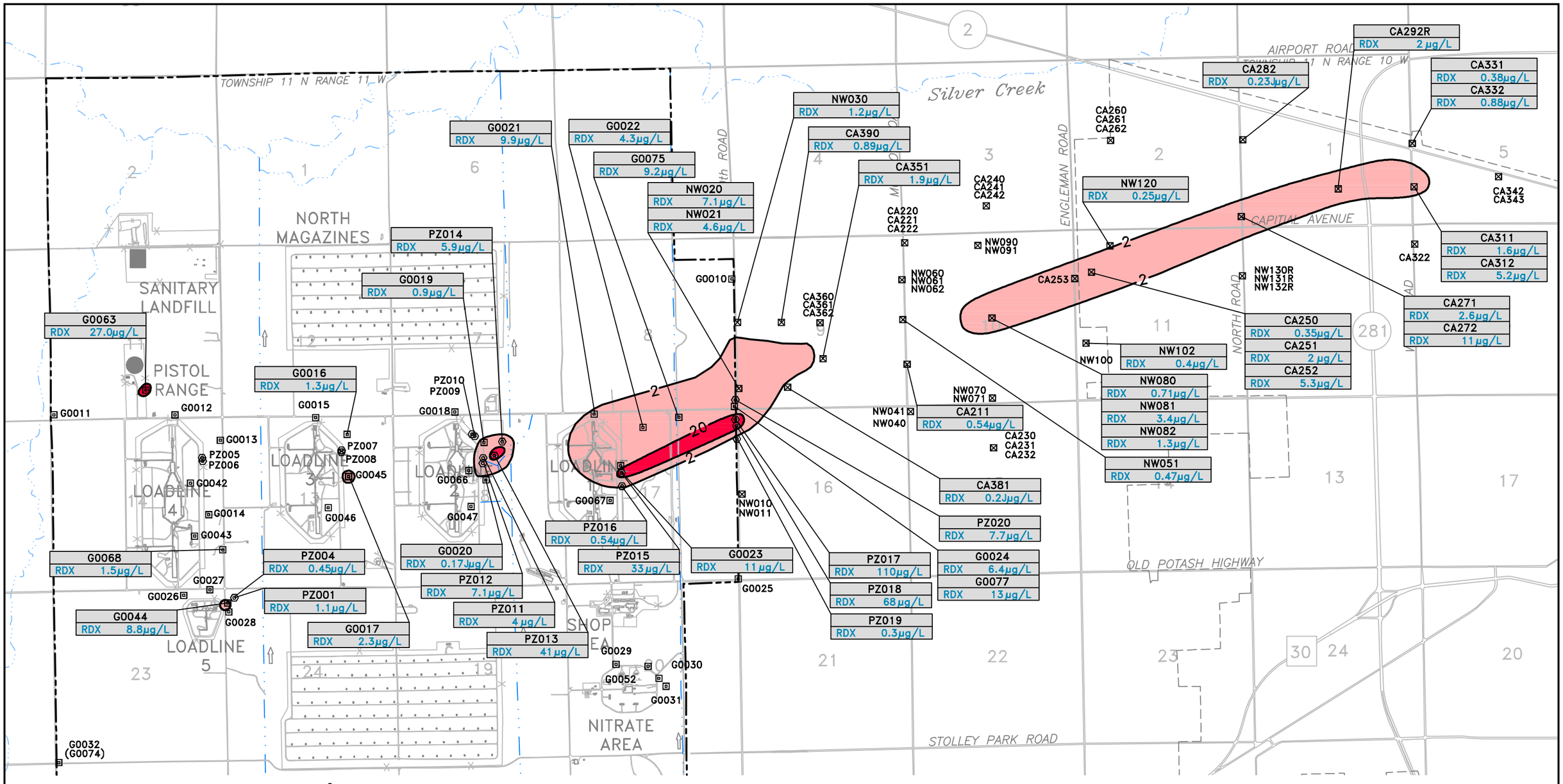
0 3000 6000
SCALE FEET

December 23, 2019 1:20:01 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-9.dwg

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) MARCH 2006
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-9
CHK'D. BY: DC	DATE: 01/24/19		



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER

- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 2004
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 2004

NOTE:
1. GO033 IS NOT ANNOTATED ON THIS MAP. IT IS TO THE SOUTH OF THE SOUTH MAGAZINE AREA AND NO EXPLOSIVES WERE DETECTED.

2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS DRY.

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

N

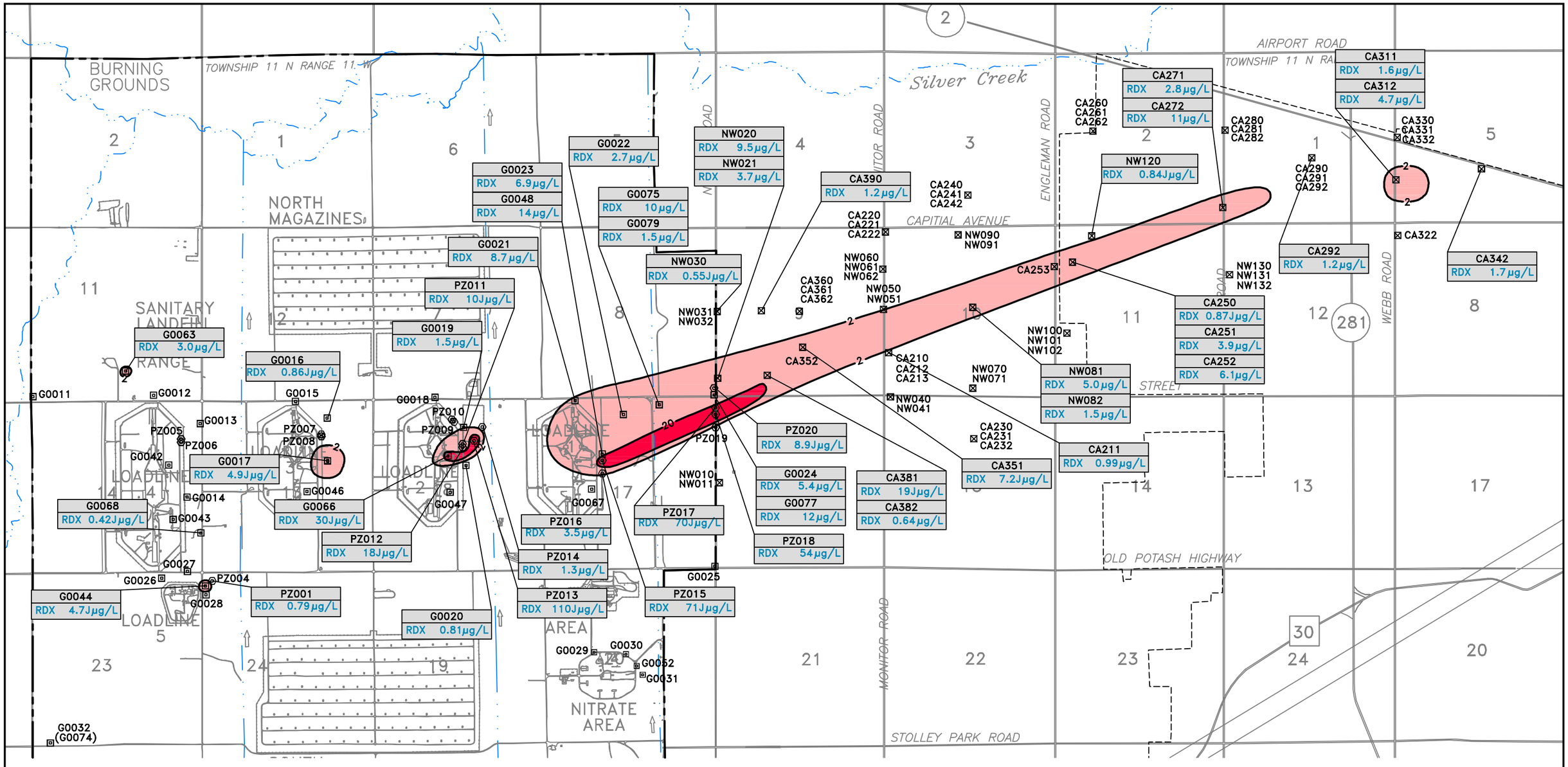
0 3000 6000
SCALE FEET

December 23, 2019 1:20:59 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-10.dwg

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) MARCH 2004
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-10
CHK'D. BY: DC	DATE: 01/24/19		



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 2002
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 2002

NOTE:
1. G0033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX.

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

N

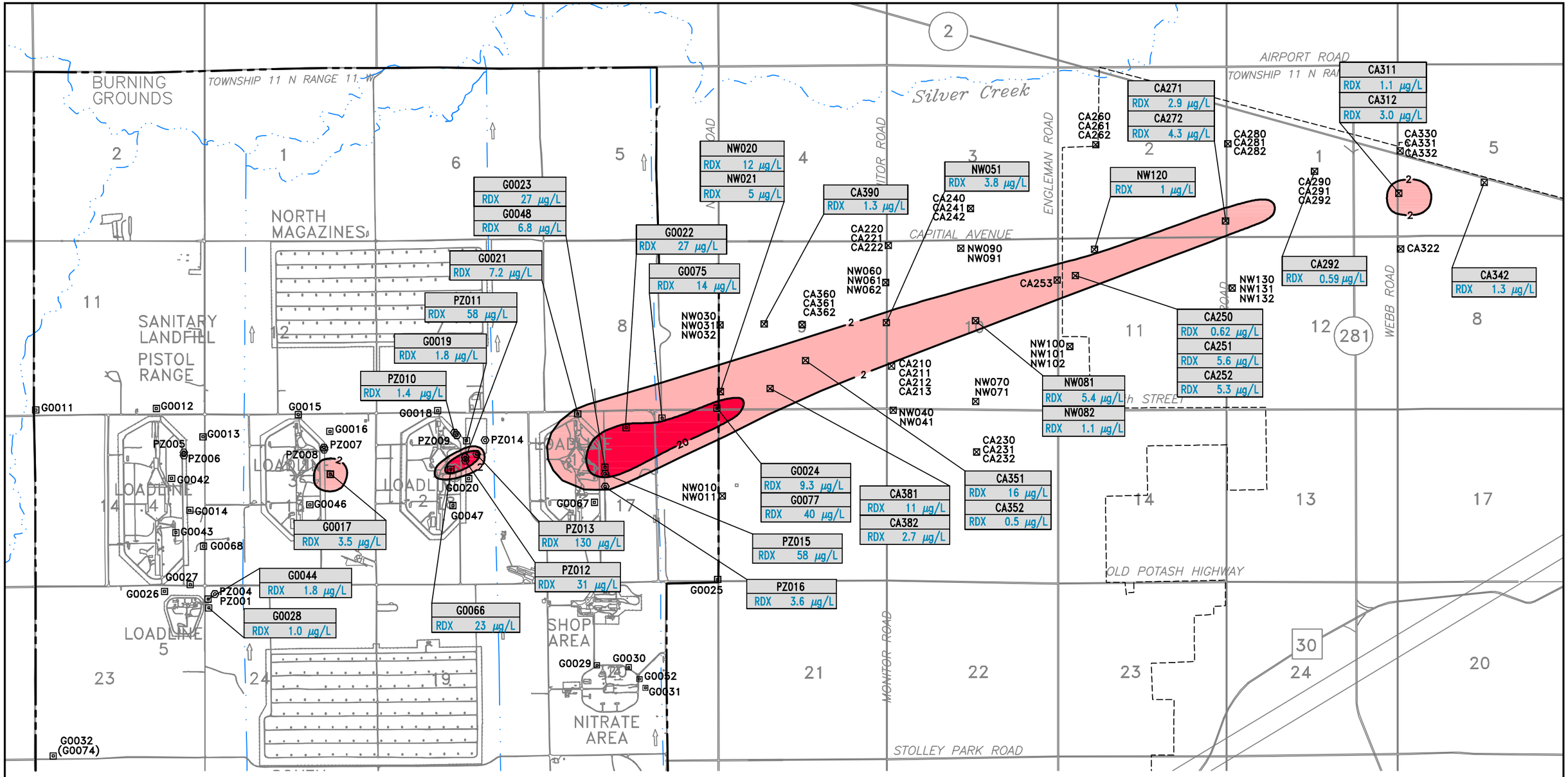
0 3000 6000
SCALE FEET

Brice ENGINEERING AECOM

RDX PLUME
(OU1) MARCH 2002
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-11
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:21:57 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-11.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- 2 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 2000
- 20 — HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 2000

NOTE:
1. G0033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NONDETECT" FOR RDX.

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO–1,3,5–TRINITRO–1,3,5–TRIAZINE
µg/L = MICROGRAMS PER LITER

N

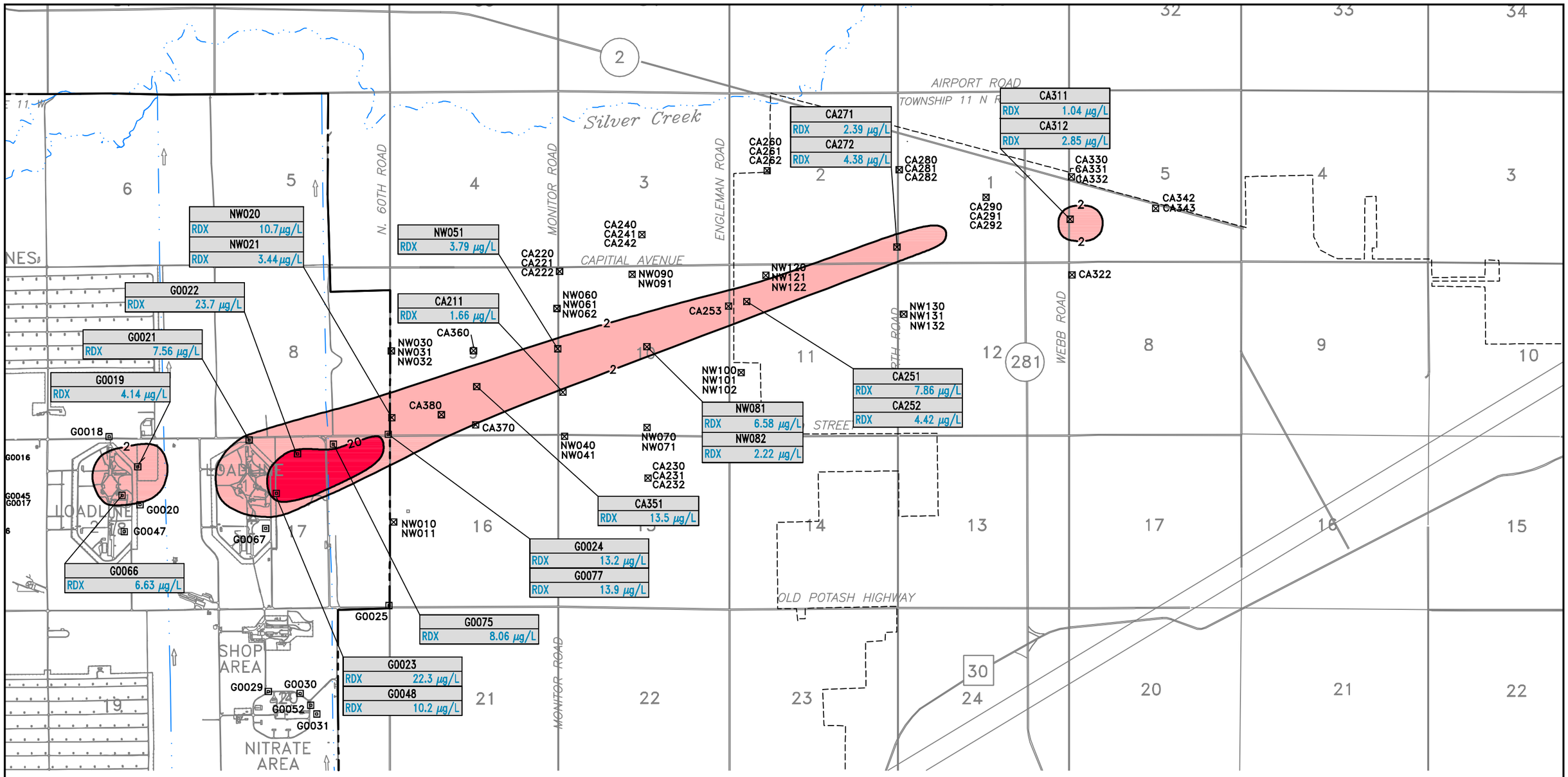
0 3000 6000
SCALE FEET

December 23, 2019 1:22:55 p.m.
Drawing: 0:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-12.dwg

Bruce ENGINEERING AECOM

RDX PLUME
(OU1) MARCH 2000
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–12
CHK'D. BY: DC	DATE: 01/24/19		



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON–POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF–POST GROUNDWATER MONITORING WELL
- 2 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 1998
- 20 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 1998

NOTE:
1. ALL MONITORING WELLS WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NONDETECT" FOR RDX.

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO–1,3,5–TRINITRO–1,3,5–TRIAZINE
µg/L = MICROGRAMS PER LITER

N

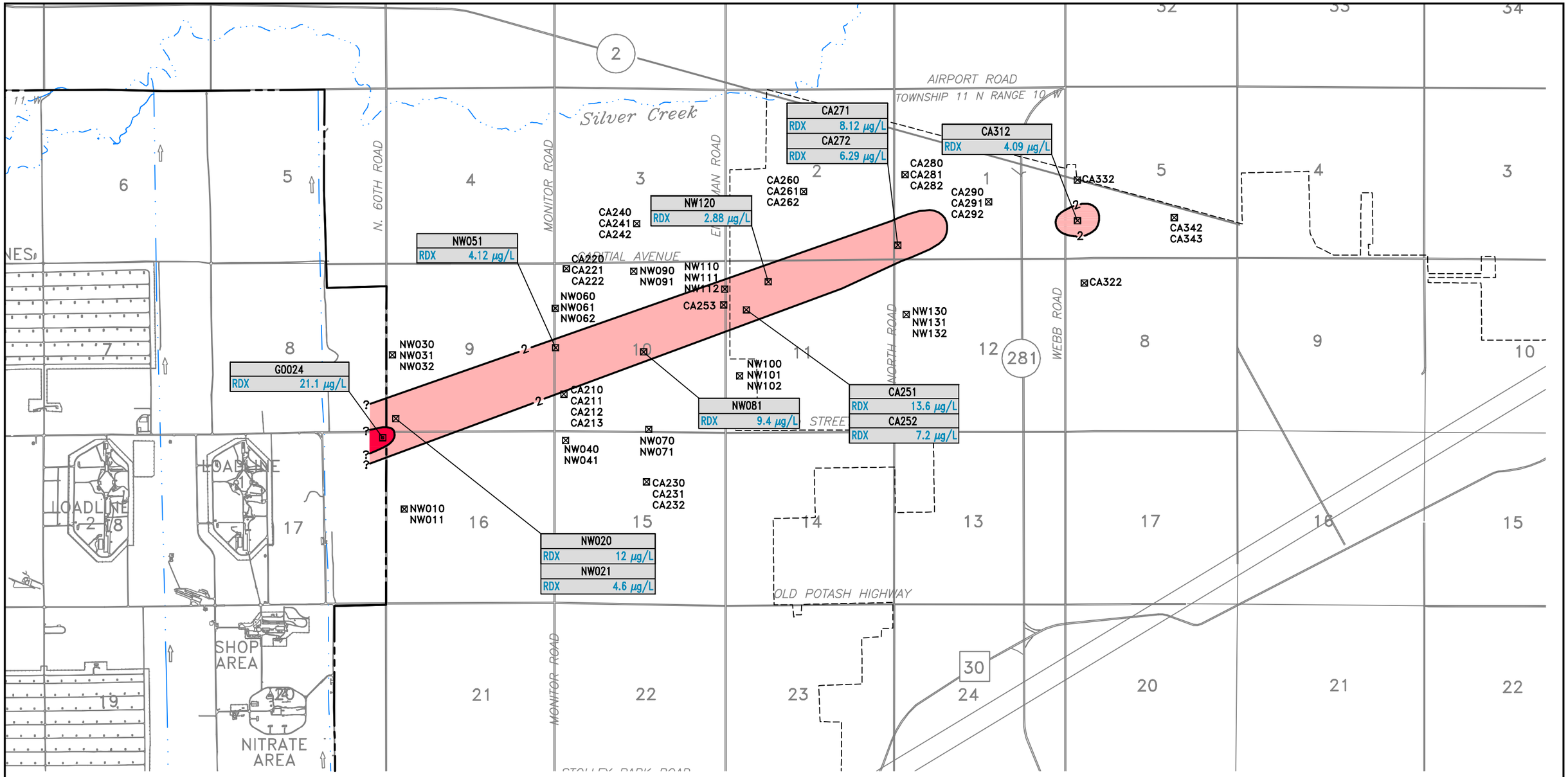
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

OFF–POST RDX PLUME
(OU1) JUNE 1998
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–13
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:24:20 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–13.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- 2 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)-MARCH 1996
- 20 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) - MARCH 1996

NOTE:
1. ALL OFF-POST MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR RDX OR THE WELL WAS DRY.

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

N

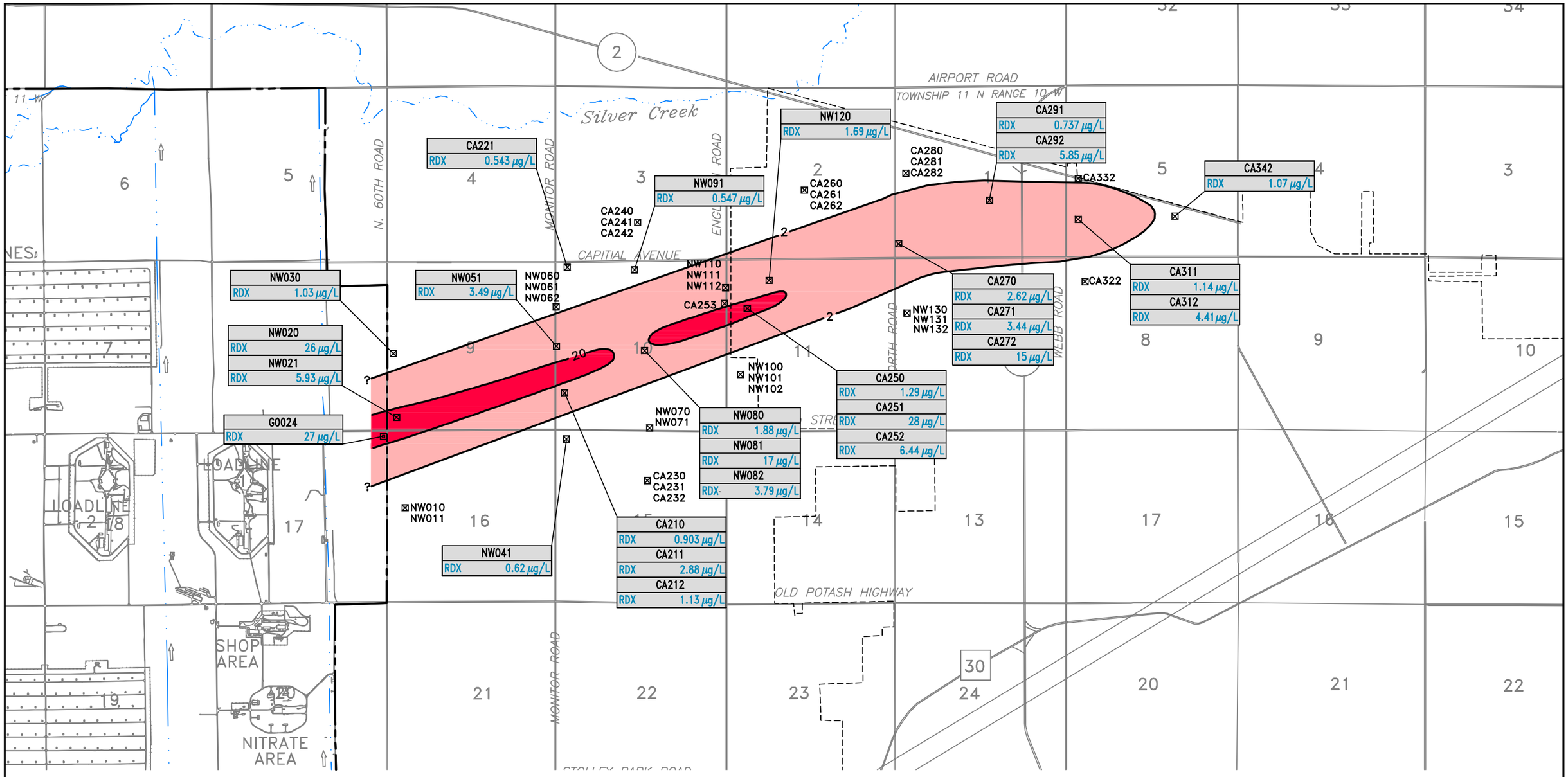
0 3000 6000
SCALE FEET

December 23, 2019 1:25:13 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-14.dwg

Bruce ENGINEERING AECOM

OFF-POST RDX PLUME (OU1) DECEMBER 1996 CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-14
CHK'D. BY: DC	DATE: 01/24/19		



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- 2 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >2µg/L)–MARCH 1994
- 20 HORIZONTAL EXTENT OF RDX (CONCENTRATIONS >20µg/L) – MARCH 1994

J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
RDX = HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE
µg/L = MICROGRAMS PER LITER

NOTE:
1. ALL OFF-POST MONITORING WELLS WERE SAMPLED AND ANALYZED FOR RDX. DETECTED RDX CONCENTRATIONS ARE SHOWN. ALL OTHER OFF-POST WELLS WERE "NONDETECT" FOR RDX.

N

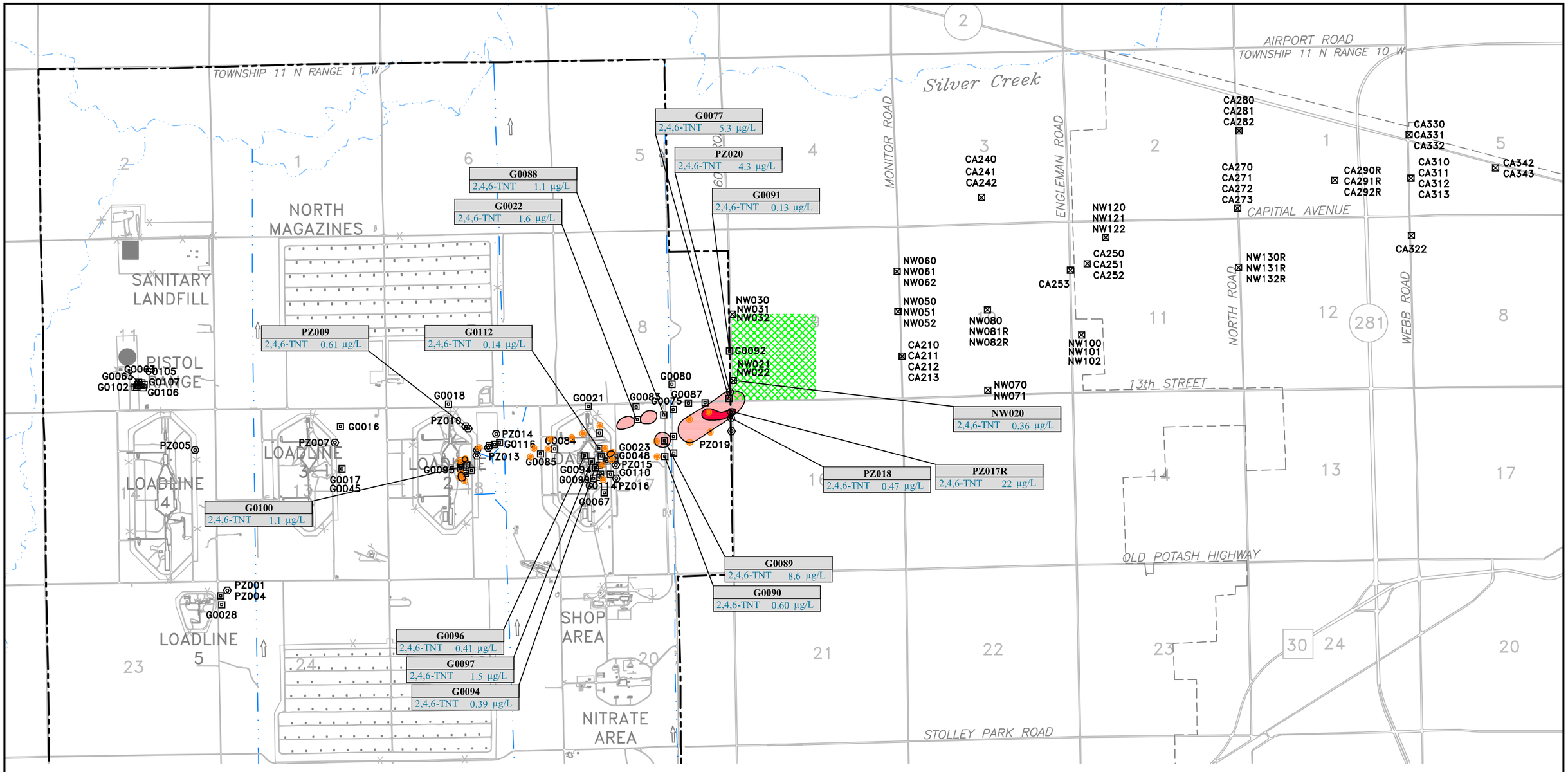
0 3000 6000
SCALE FEET

Bryce ENGINEERING AECOM

OFF-POST RDX PLUME
(OU1) JULY 1994
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-15
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:26:09 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-15.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- DIRECT PUSH GROUNDWATER SAMPLE LOCATION – (FEBRUARY 2016)
- PZ015 — DETECTED 2,4,6-TNT CONCENTRATIONS – FEBERARY/AUGUST 2016
- 2 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – AUGUST 2016
- 20 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – AUGUST 2016
- FEEDLOT AREA

2,4,6–TNT = 2,4,6–TRINITROTOLUENE
J = ESTIMATED QUALIFIER
LTM = LONG–TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
µg/L = MICROGRAMS PER LITER

NOTE:
1. TNT PLUME BASED ON 2016 SAMPLING RESULTS AND HISTORIC OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON–DETECT" FOR TNT OR THE WELL WAS NOT SAMPLED.

N

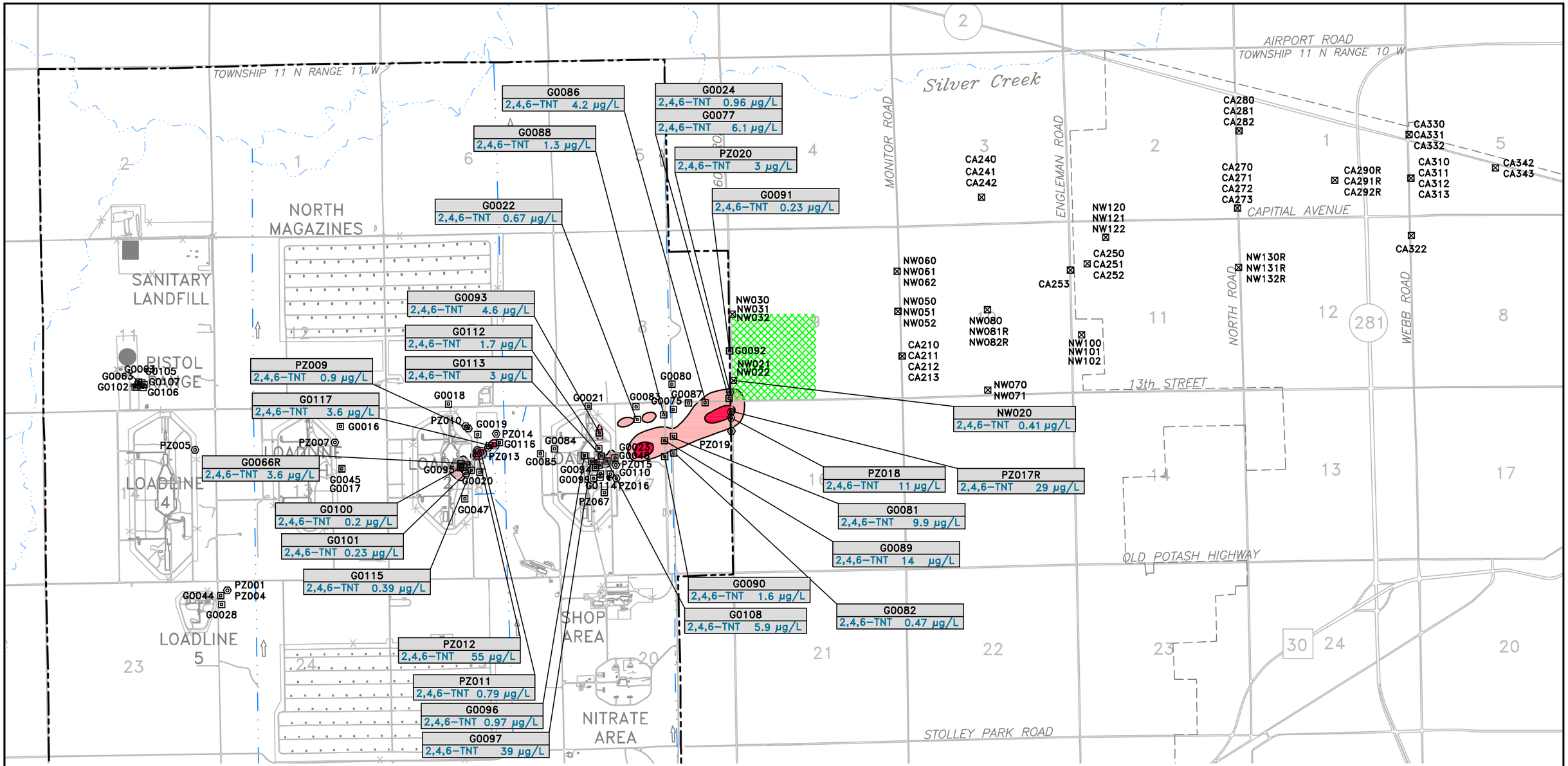
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) AUGUST 2016
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–16
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:27:00 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–16.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON–POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- PZ015 — DETECTED 2,4,6–TNT CONCENTRATIONS – AUGUST 2014
- 2 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – AUGUST 2014
- 20 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – AUGUST 2014
- FEEDLOT AREA

2,4,6–TNT = 2,4,6–TRINITROTOLUENE
J = ESTIMATED QUALIFIER
LTM = LONG–TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
µg/L = MICROGRAMS PER LITER

NOTE:
1. TNT PLUME BASED ON 2014 SAMPLING RESULTS AND HISTORIC OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON–DETECT" FOR TNT OR THE WELL WAS NOT SAMPLED.

N

0 3000 6000

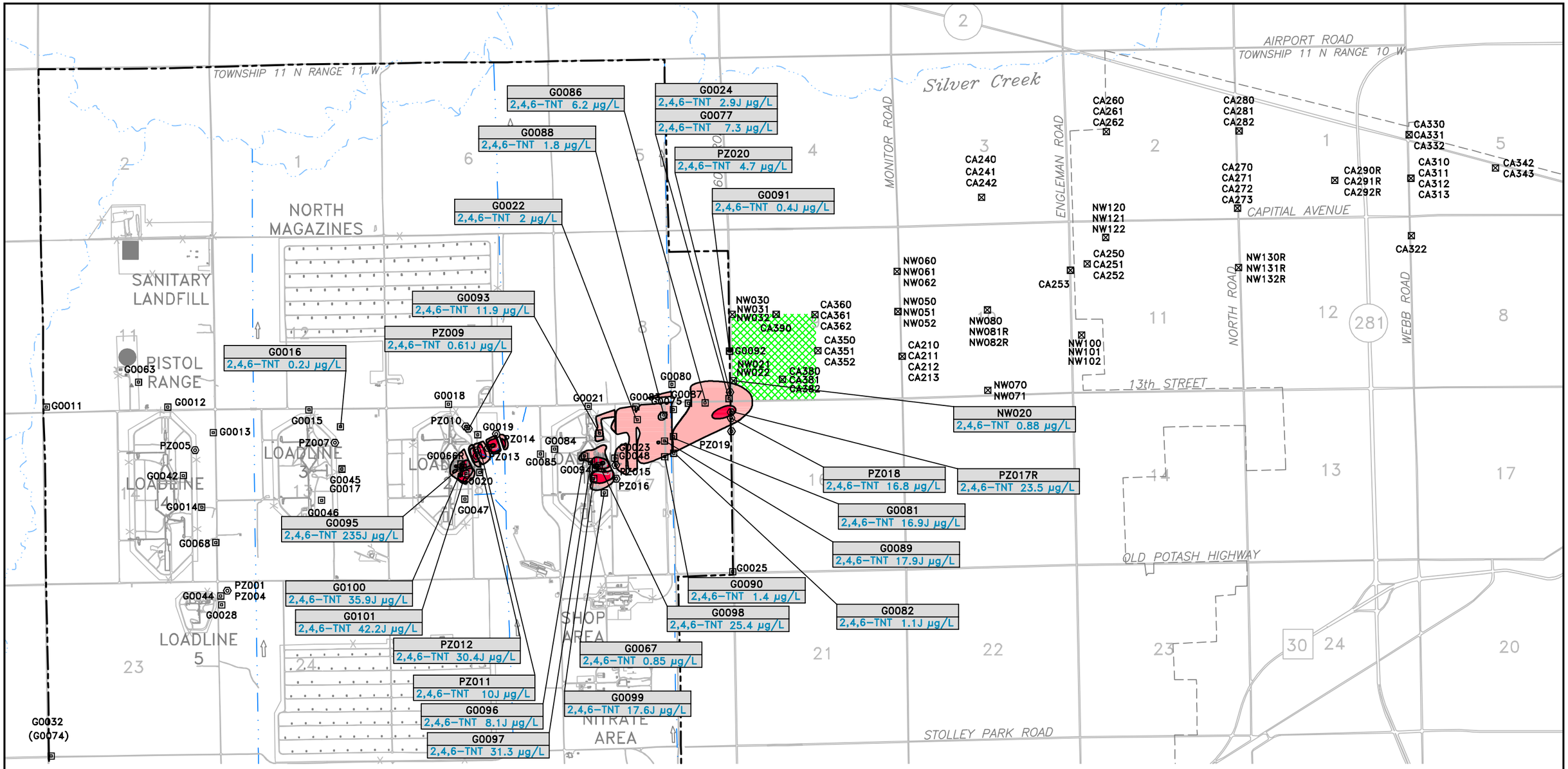
SCALE FEET

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) AUGUST 2014
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–17
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:27:49 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–17.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- PZ015 — DETECTED 2,4,6-TNT CONCENTRATIONS – MARCH 2012
- 2 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2012
- 20 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2012
- 200 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2012
- FEEDLOT AREA

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
µg/L = MICROGRAMS PER LITER

NOTE:
1. TNT PLUME BASED ON 2012 LTM RESULTS AND 2012 OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. GOO33 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
3. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR TNT OR THE WELL WAS DRY.

N

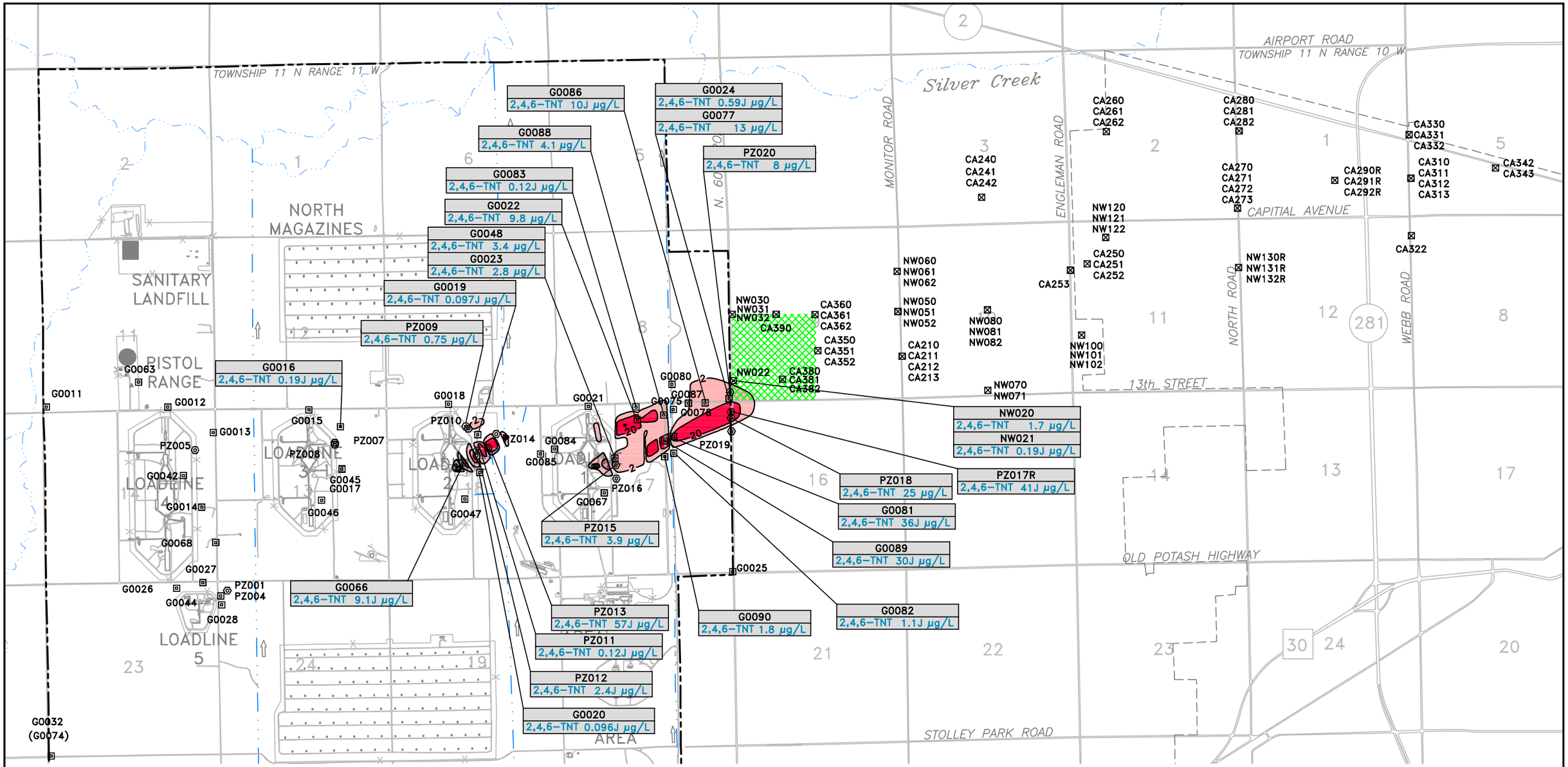
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2012
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-18
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:28:48 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-18.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- PZ015 — DETECTED 2,4,6-TNT CONCENTRATIONS – MARCH 2010
- 2 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2010
- 20 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2010
- 200 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2010
- FEEDLOT AREA

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
µg/L = MICROGRAMS PER LITER

NOTE:
1. TNT PLUME BASED ON 2010 LTM RESULTS AND 2010 OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. GO033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
3. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR TNT OR THE WELL WAS DRY.

0 3000 6000
SCALE FEET

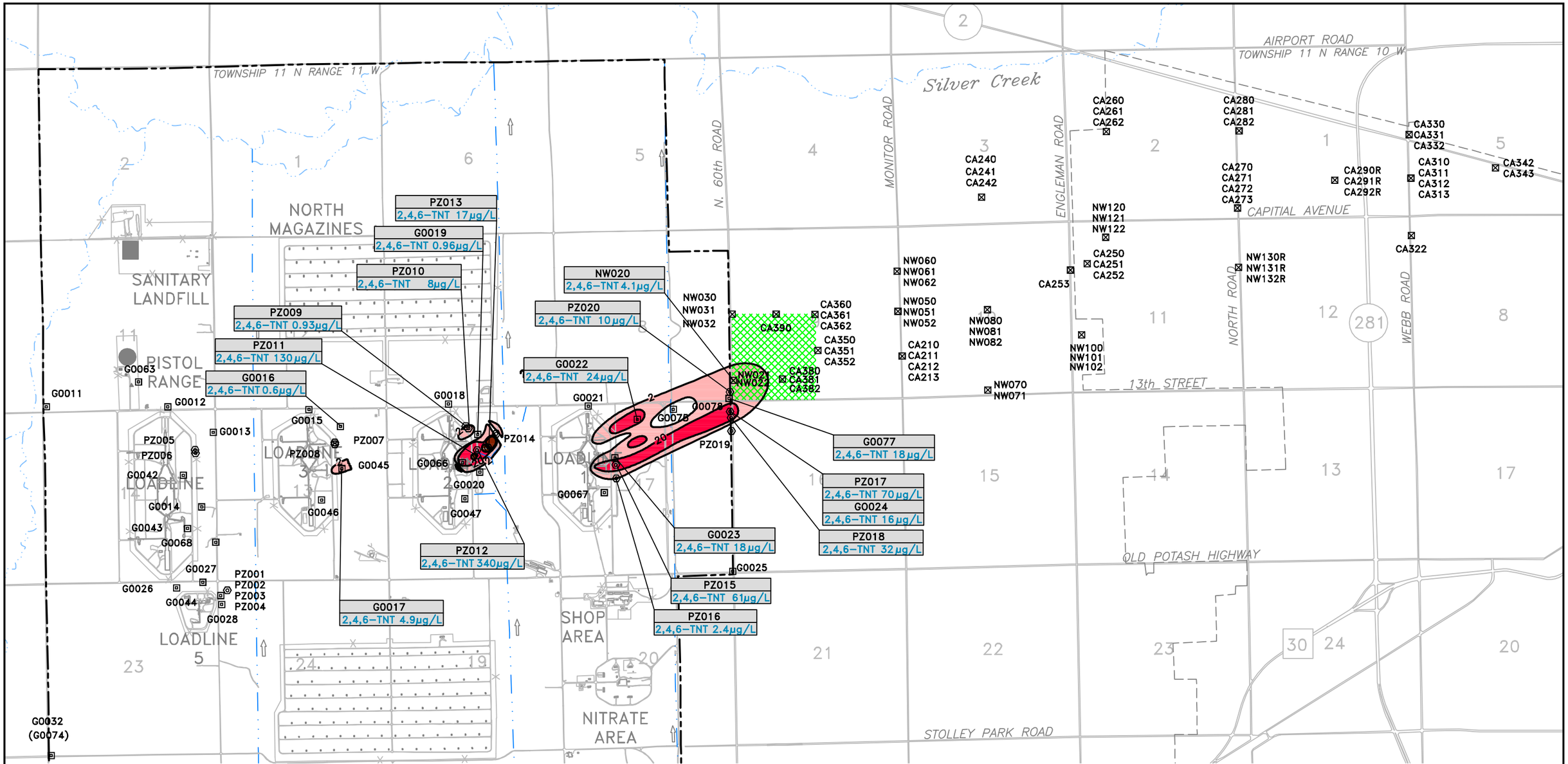
N

Brice ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2010
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-19
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:29:39 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-19.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON–POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- PZ015 — DETECTED 2,4,6–TNT CONCENTRATIONS – MARCH 2008
- 2 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2008
- 20 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2008
- 200 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2008
- FEEDLOT AREA

2,4,6–TNT = 2,4,6–TRINITROTOLUENE
J = ESTIMATED QUALIFIER
LTM = LONG–TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
µg/L = MICROGRAMS PER LITER

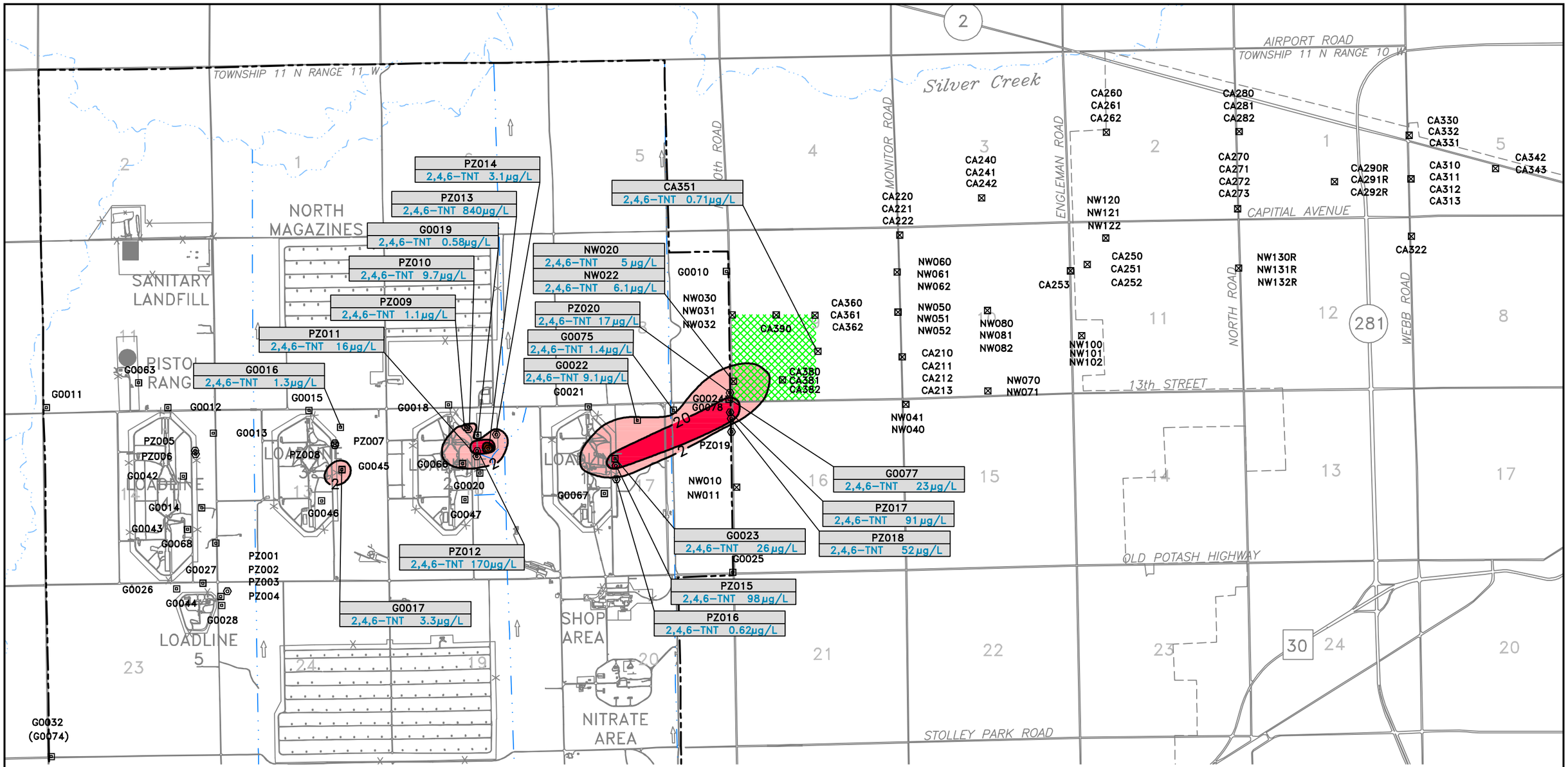
NOTE:
1. TNT PLUME BASED ON 2008 LTM RESULTS AND 2008 OU1 RAO GROUNDWATER INVESTIGATION RESULTS.
2. GO033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
3. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON–DETECT" FOR TNT OR THE WELL WAS DRY.

December 23, 2019 1:30:57 p.m.
Drawing: 0:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–20.dwg

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2008
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–20
CHK'D. BY: DC	DATE: 01/24/19		



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 — SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 — OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- 2 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2006
- 20 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2006
- 200 — HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2006
- FEEDLOT AREA

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
J = ESTIMATED QUALIFIER
LTM = LONG-TERM MONITORING
OU = OPERABLE UNIT
RAO = REMEDIAL ACTION OPERATION
µg/L = MICROGRAMS PER LITER

NOTE:
1. GO033 IS NOT ANNOTATED ON THIS MAP. IT IS TO THE SOUTH OF THE SOUTH MAGAZINE AREA AND NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NONDETECT" FOR TNT OR THE WELL WAS DRY.

N

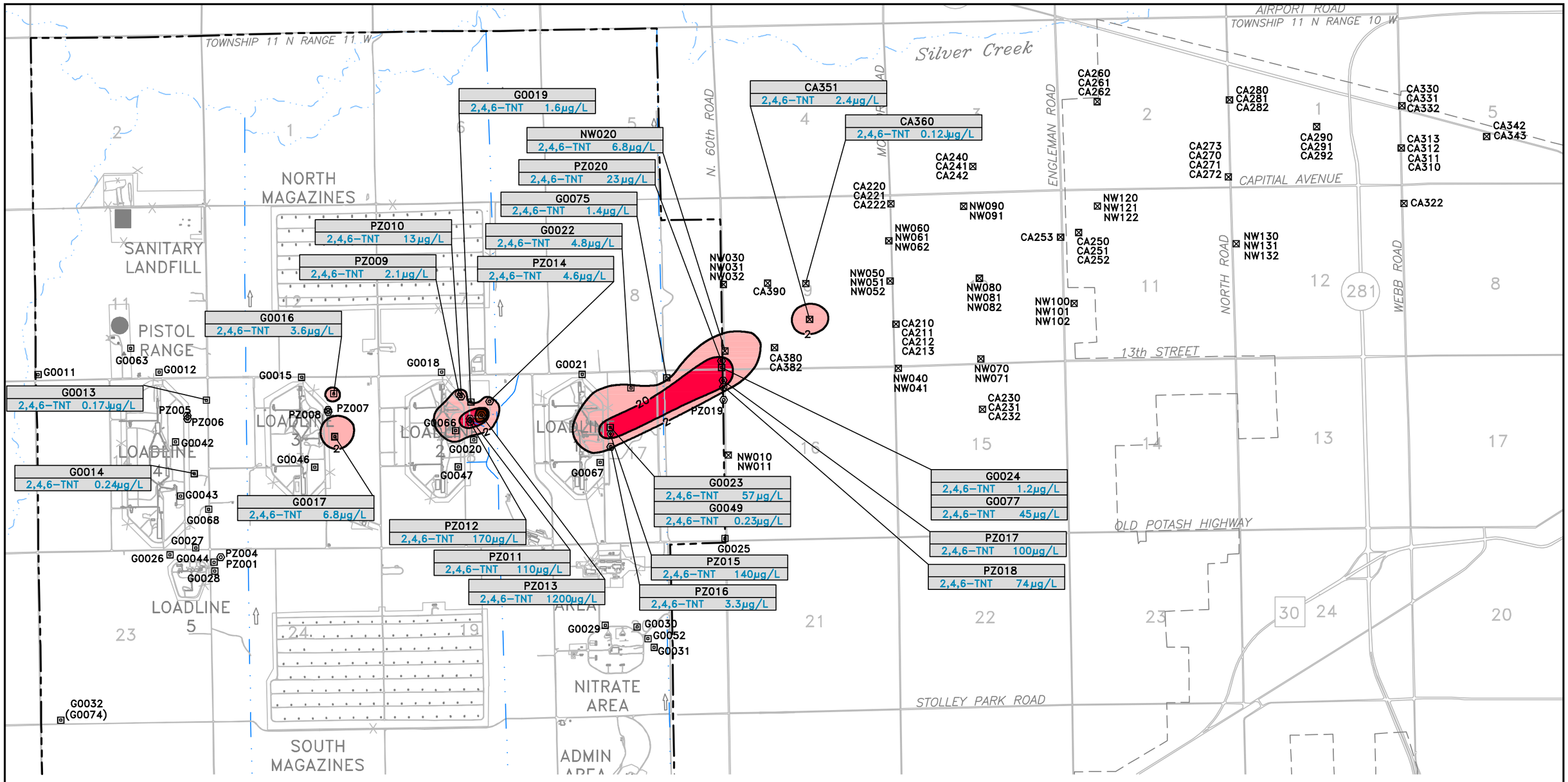
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2006
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-21
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:31:59 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-21.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON–POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- 2 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2004
- 20 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2004
- 200 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2004

2,4,6–TNT = 2,4,6–TRINITROTOLUENE
J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER

NOTE:
1. G0033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NONDETECT" FOR TNT.

N

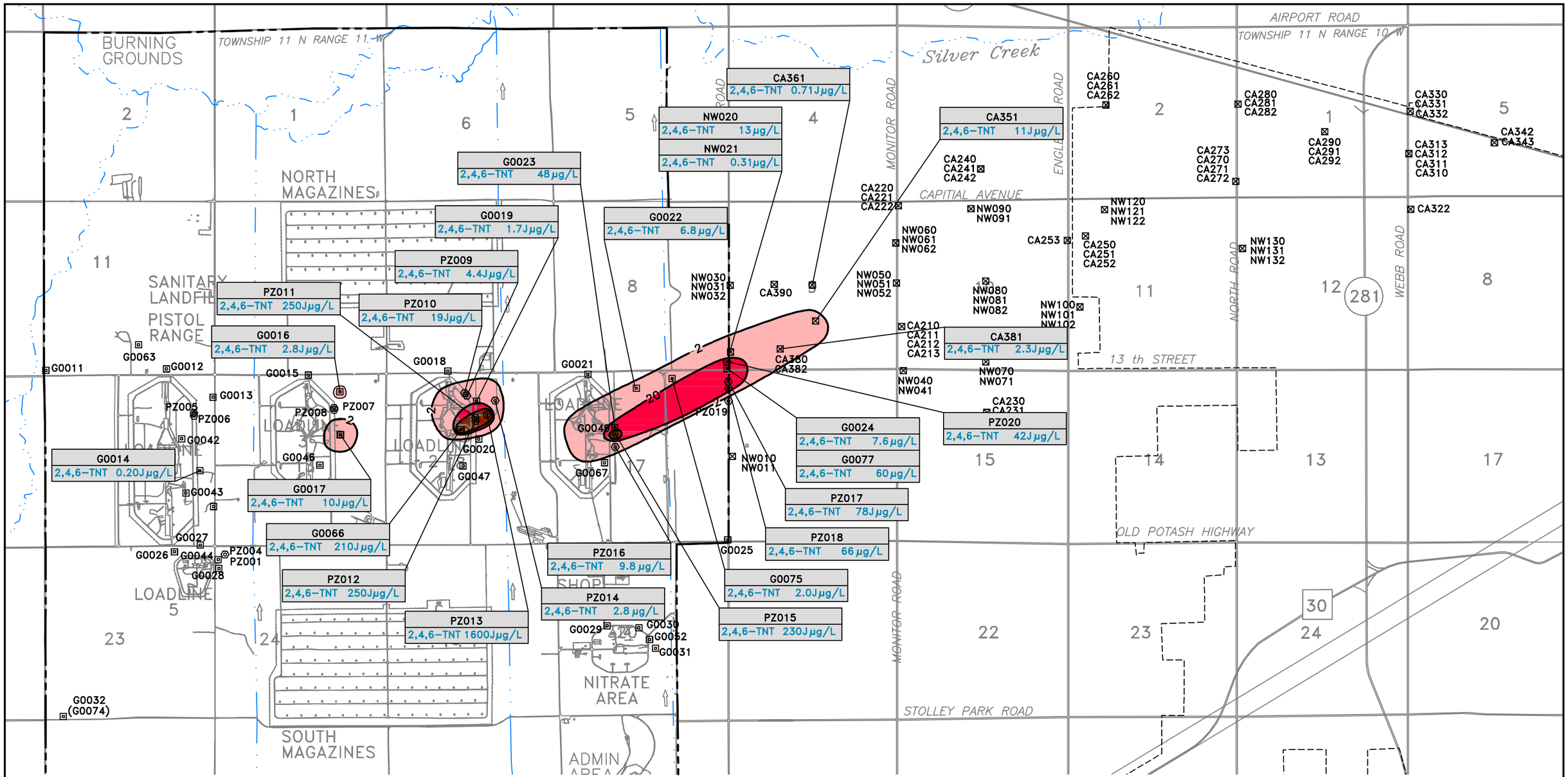
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2004
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–22
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:32:51 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-22.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- 2 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2002
- 20 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2002
- 200 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2002

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER

NOTE:
1. G0033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NONDETECT" FOR TNT.

N

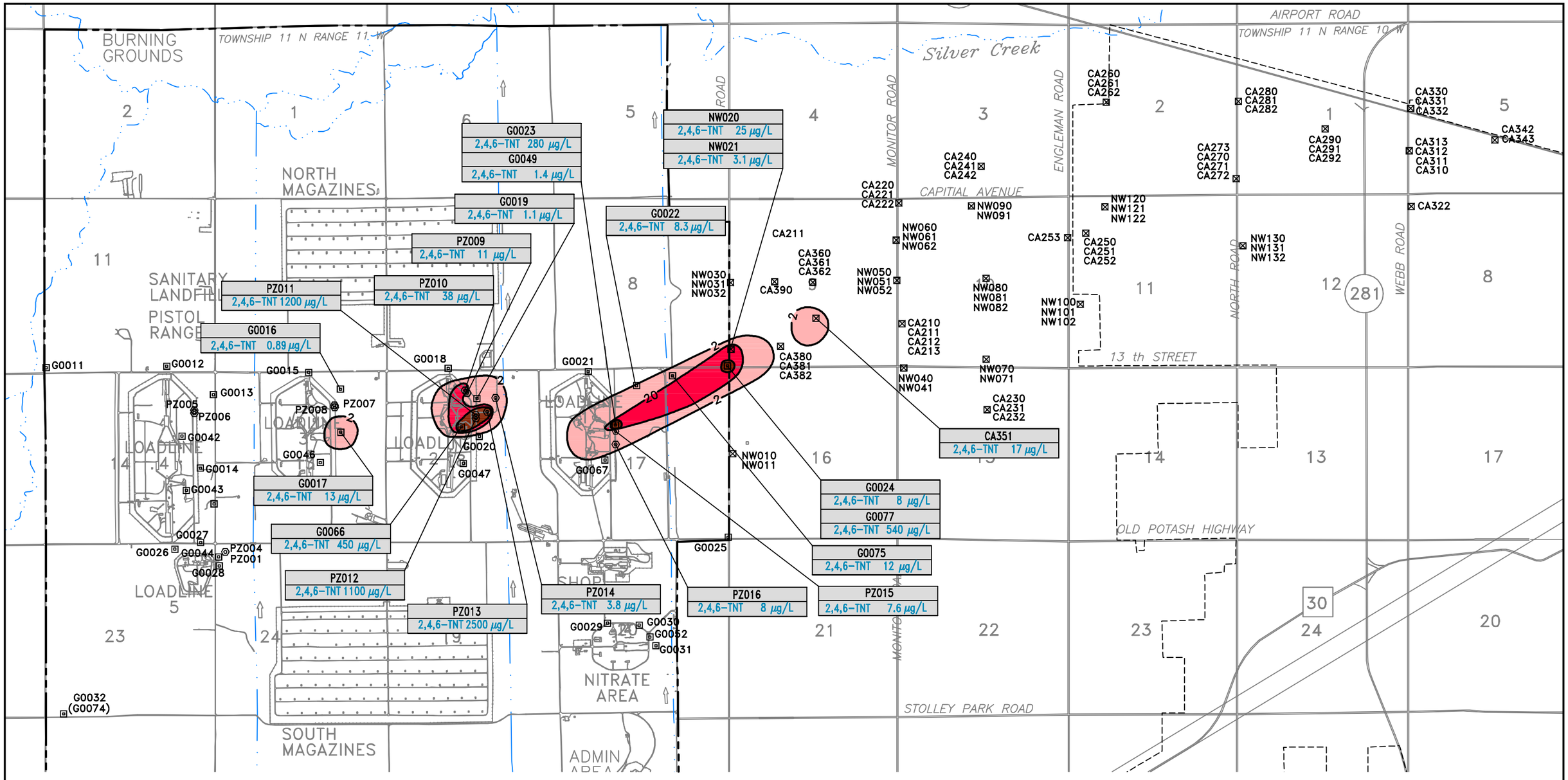
0 3000 6000
SCALE FEET

December 23, 2019 1:33:42 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-23.dwg

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2002
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-23
CHK'D. BY: DC	DATE: 01/24/19		



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- 2 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 2000
- 20 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 2000
- 200 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 2000

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER

NOTE:
1. G0033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR TNT OR THE WELL WAS DRY.

N

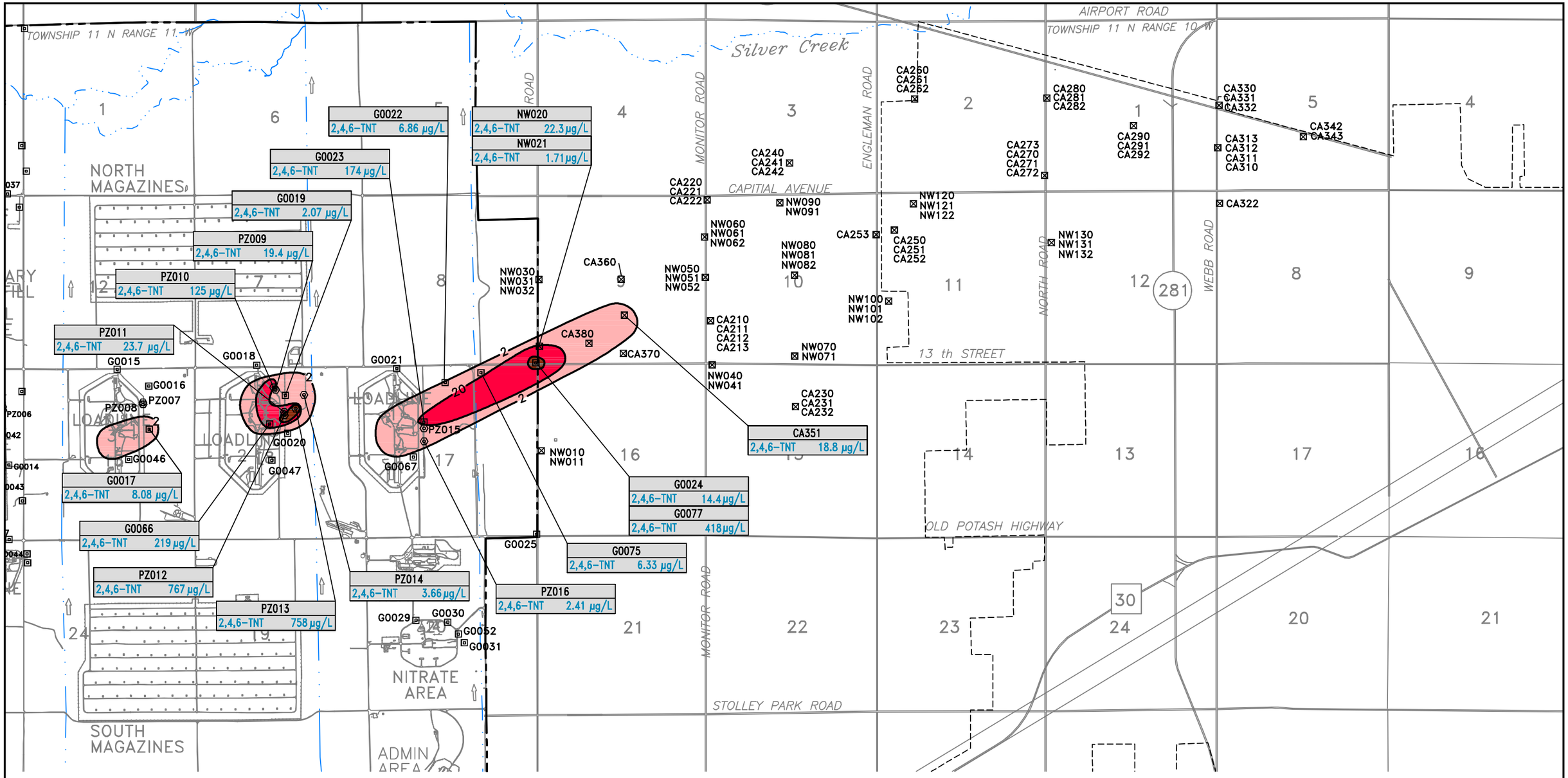
0 3000 6000
SCALE FEET

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) MARCH 2000
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-24
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:34:44 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-24.dwg



LEGEND:

- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- 1 SECTION NUMBER
- ON-POST GROUNDWATER MONITORING WELL
- NW082 OR CA211 OFF-POST GROUNDWATER MONITORING WELL
- ON-POST PIEZOMETER
- 2 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >2µg/L) – MARCH 1998
- 20 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >20µg/L) – MARCH 1998
- 200 HORIZONTAL EXTENT OF TNT (CONCENTRATIONS >200µg/L) – MARCH 1998

2,4,6-TNT = 2,4,6-TRINITROTOLUENE
J = ESTIMATED QUALIFIER
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER

NOTE:
1. GO033 IS NOT ANNOTATED ON THIS FIGURE. NO EXPLOSIVES WERE DETECTED.
2. ALL MONITORING WELLS SHOWN WERE SAMPLED AND ANALYZED FOR TNT. DETECTED TNT CONCENTRATIONS ARE SHOWN. ALL OTHER WELLS WERE "NON-DETECT" FOR TNT OR THE WELL WAS DRY.

N

0 3000 6000
SCALE FEET

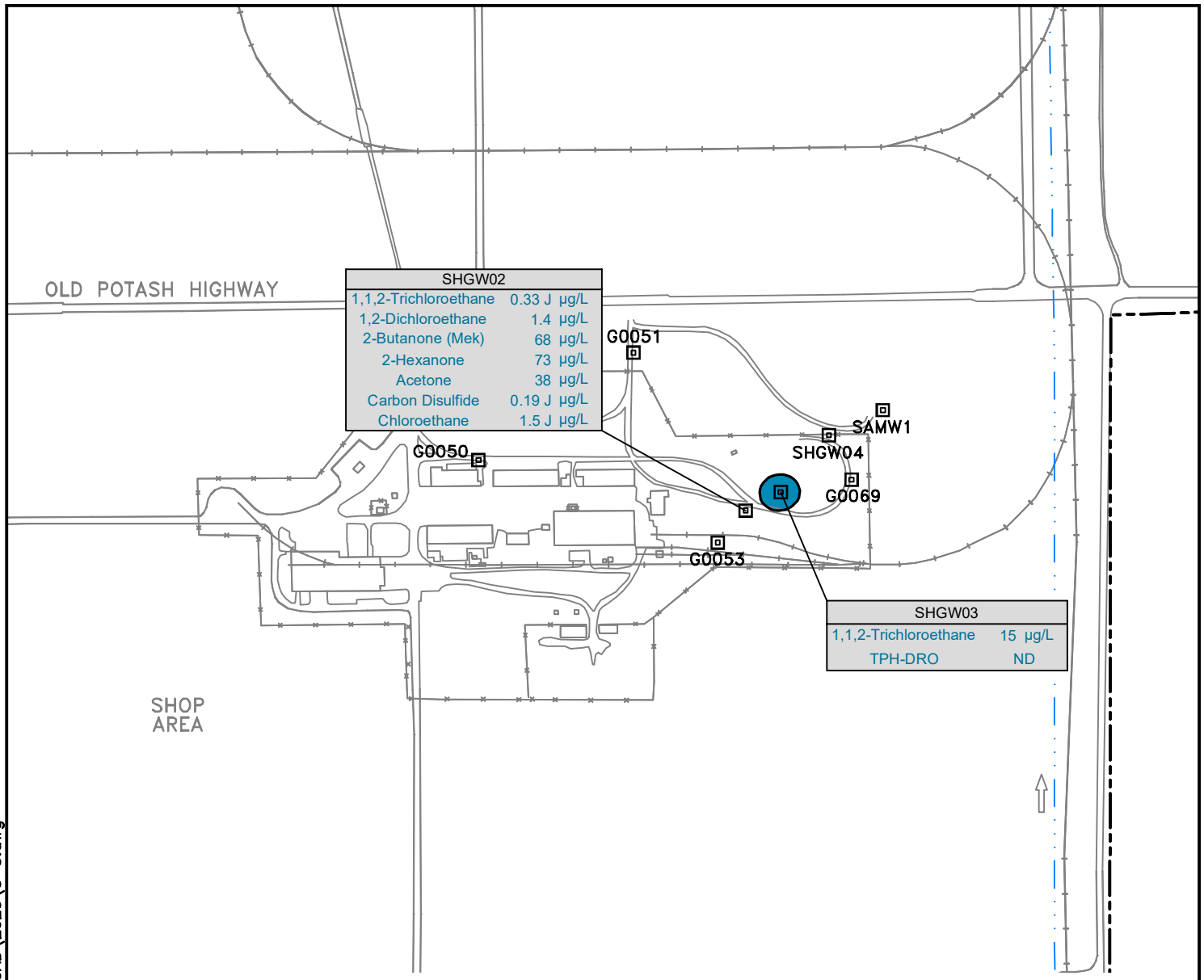
December 23, 2019 1:35:38 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-25.dwg

Bruce ENGINEERING AECOM

TNT PLUME
(OU1) JUNE 1998
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-25
CHK'D. BY: DC	DATE: 01/24/19		

OU3 Historic Figures



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCLs (1,1,2-TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SHGW02 — VOC GROUNDWATER SAMPLING RESULTS – JUNE 2020

1,1,2-TCA = 1,1,2-TRICHLORETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH-DRO = TOTAL PETROLEUM HYDROCARBON-DIESEL RANGE ORGANICS

N

0 500 1000

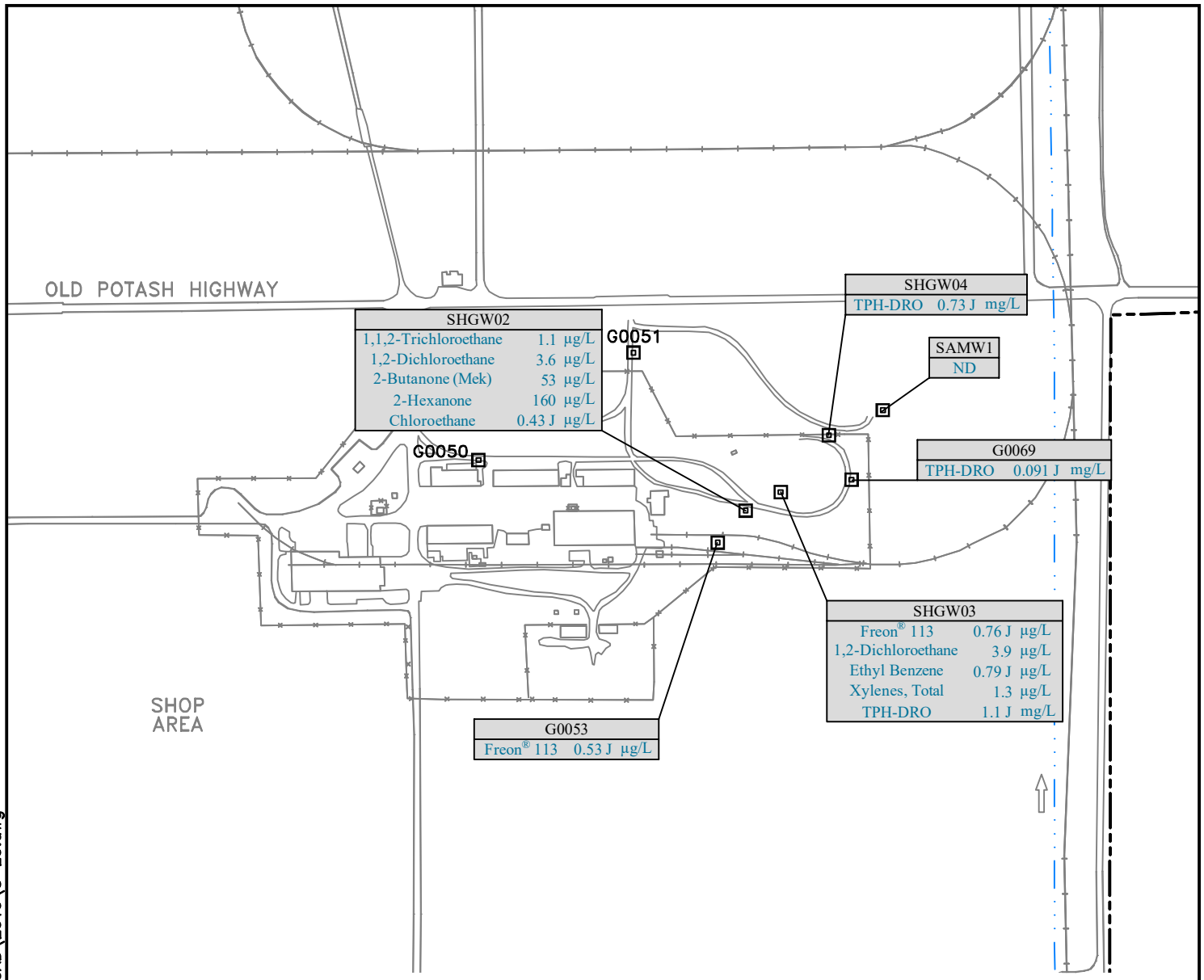
SCALE FEET

Brice ENGINEERING AECOM

VOC CONCENTRATIONS
SHOP AREA (OU3) JUNE 2020
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/06/20	PROJECT NO. 60565355	FIG. NO. 5-5
CHK'D. BY: DC	DATE: 10/06/20		

February 24, 2021 12:49:04 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2020\5-5.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS ARE LESS THAN MCLs (1,2-DCA AND 1,1,2-TCA MCL ARE 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SHGW02 — VOC GROUNDWATER SAMPLING RESULTS – JUNE 2019

1,2-DCA = 1,2-DICHLOROETHANE
1,1,2-TCA = 1,1,2-TRICHLORETHANE
FREON® 113 = 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH-DRO = TOTAL PETROLEUM HYDROCARBON-DIESEL RANGE ORGANICS

N

0 500 1000

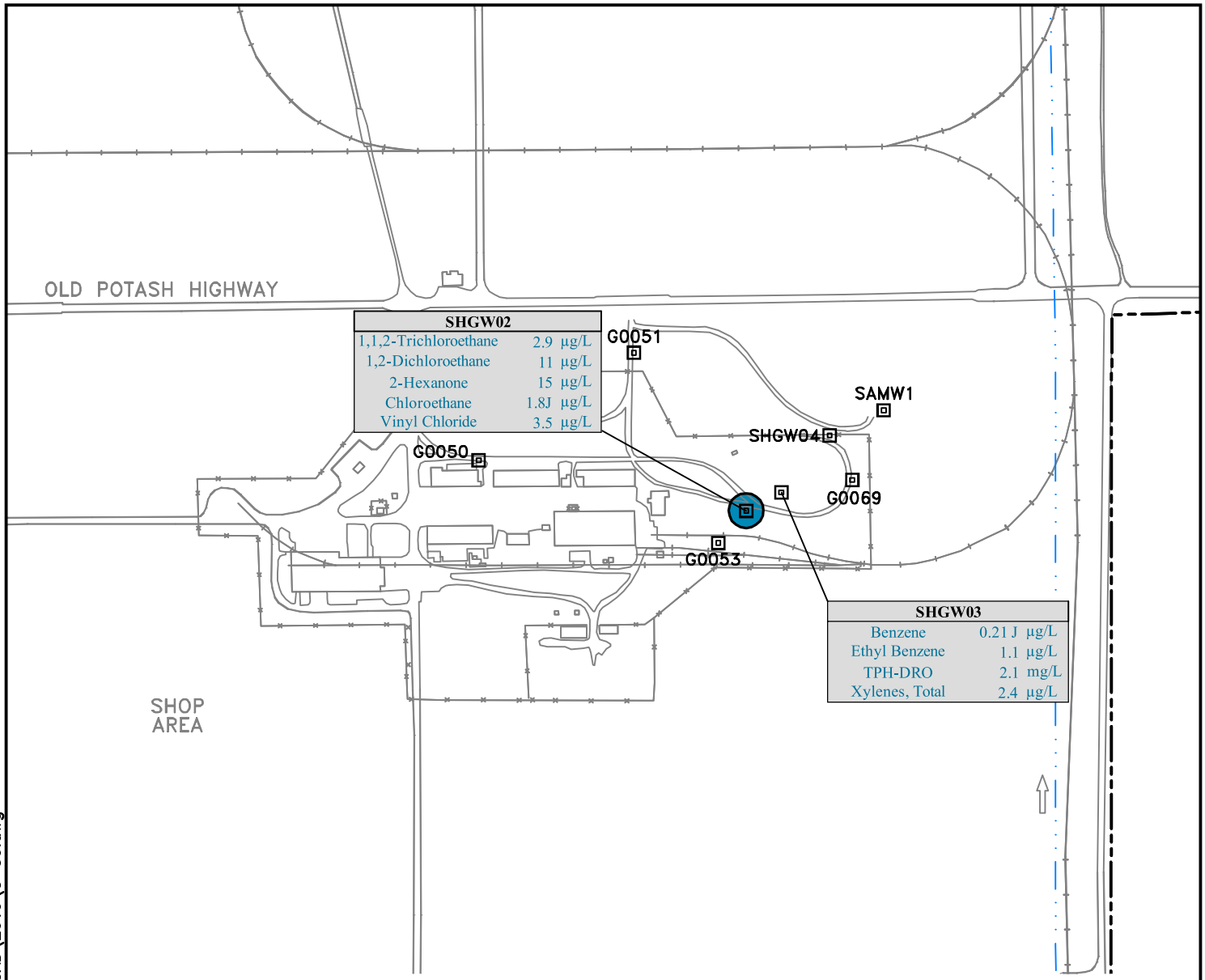
SCALE FEET

Brice ENGINEERING AECOM

VOC CONCENTRATIONS
SHOP AREA (OU3) JUNE 2019
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 09/13/19	PROJECT NO. 60565355	FIG. NO. 5-29
CHK'D. BY: DC	DATE: 09/13/19		

January 20, 2020 10:14:25 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-29.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCL (1,2-DCA MCL IS 5 µg/L, VINYL CHLORIDE IS 2 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,2-DCA = 1,2-DICHLOROETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH-DRO = TOTAL PETROLEUM HYDROCARBON-DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

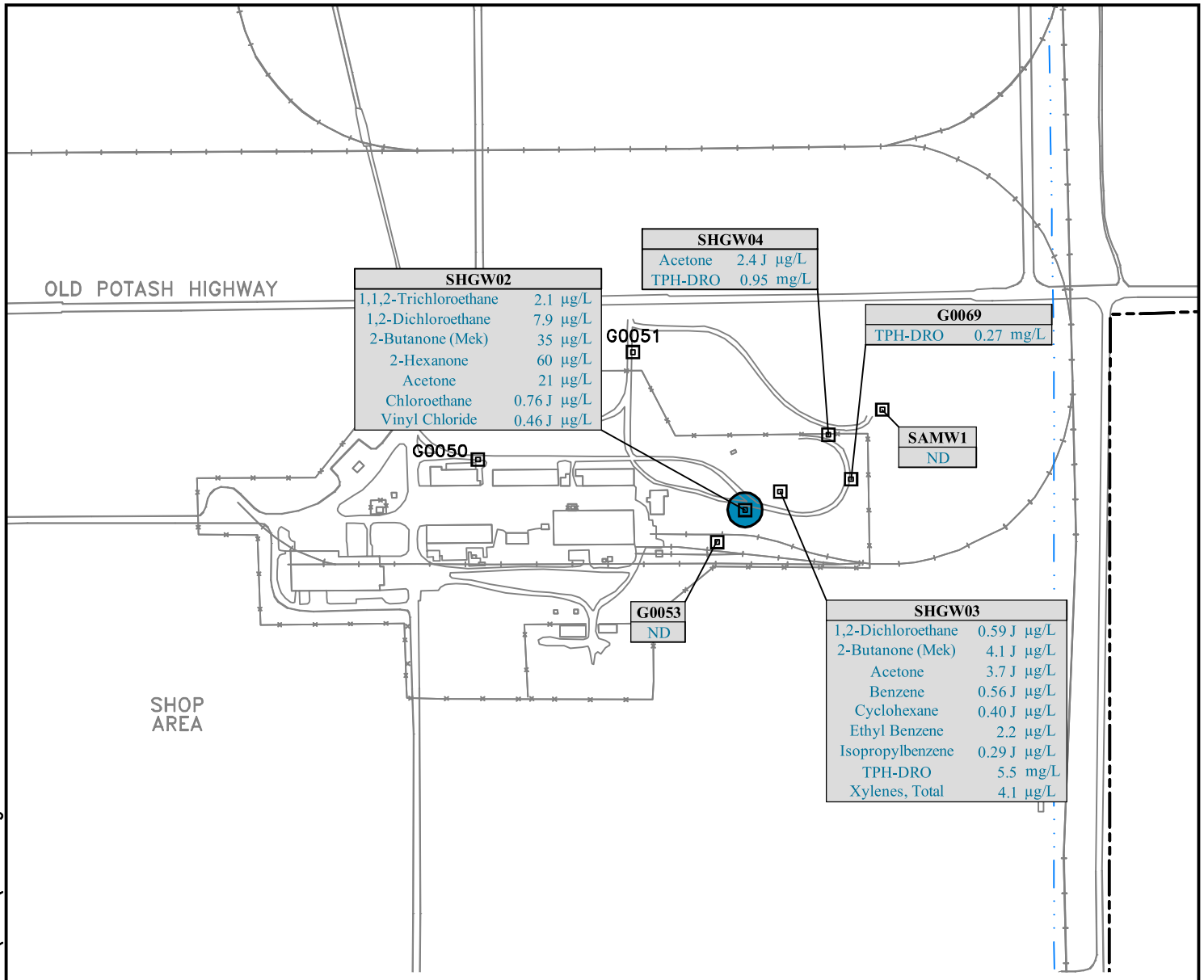
N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2018
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-30
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:07:07 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-30.dwg



LEGEND:

- ON-POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCL (1,2-DCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,2-DCA = 1,2-DICHLOROETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH-DRO = TOTAL PETROLEUM HYDROCARBON-DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

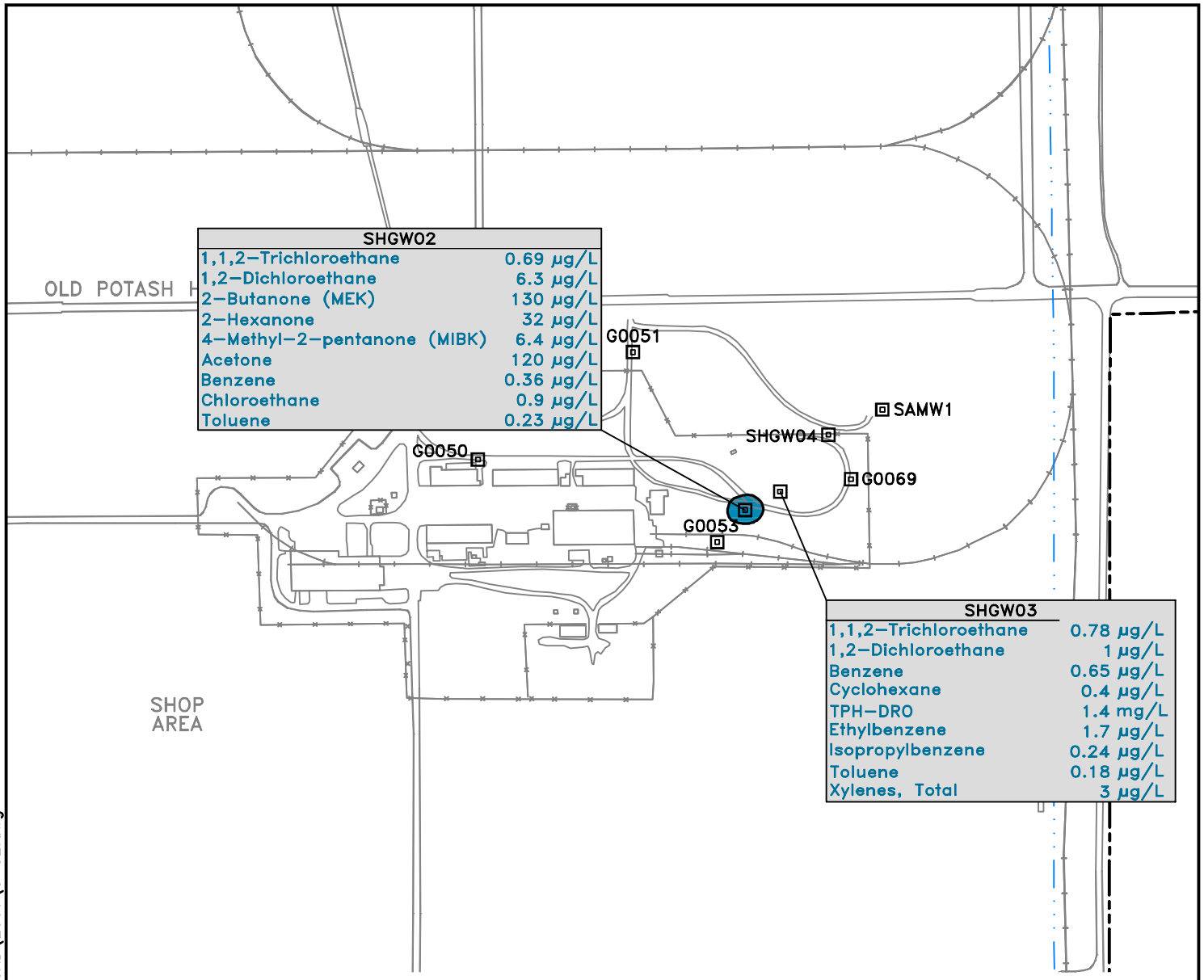
N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) AUGUST 2016
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5-31
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:08:05 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-31.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATIONS > MCL (1,2–DCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,2–DCA = 1,2–DICHLOROETHANE
J = ESTIMATED QUALIFIER
MCL = MAXIMUM CONTAMINANT LEVEL
Mg/L = MILLIGRAMS PER LITER
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH–DRO = TOTAL PETROLEUM HYDROCARBON–DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

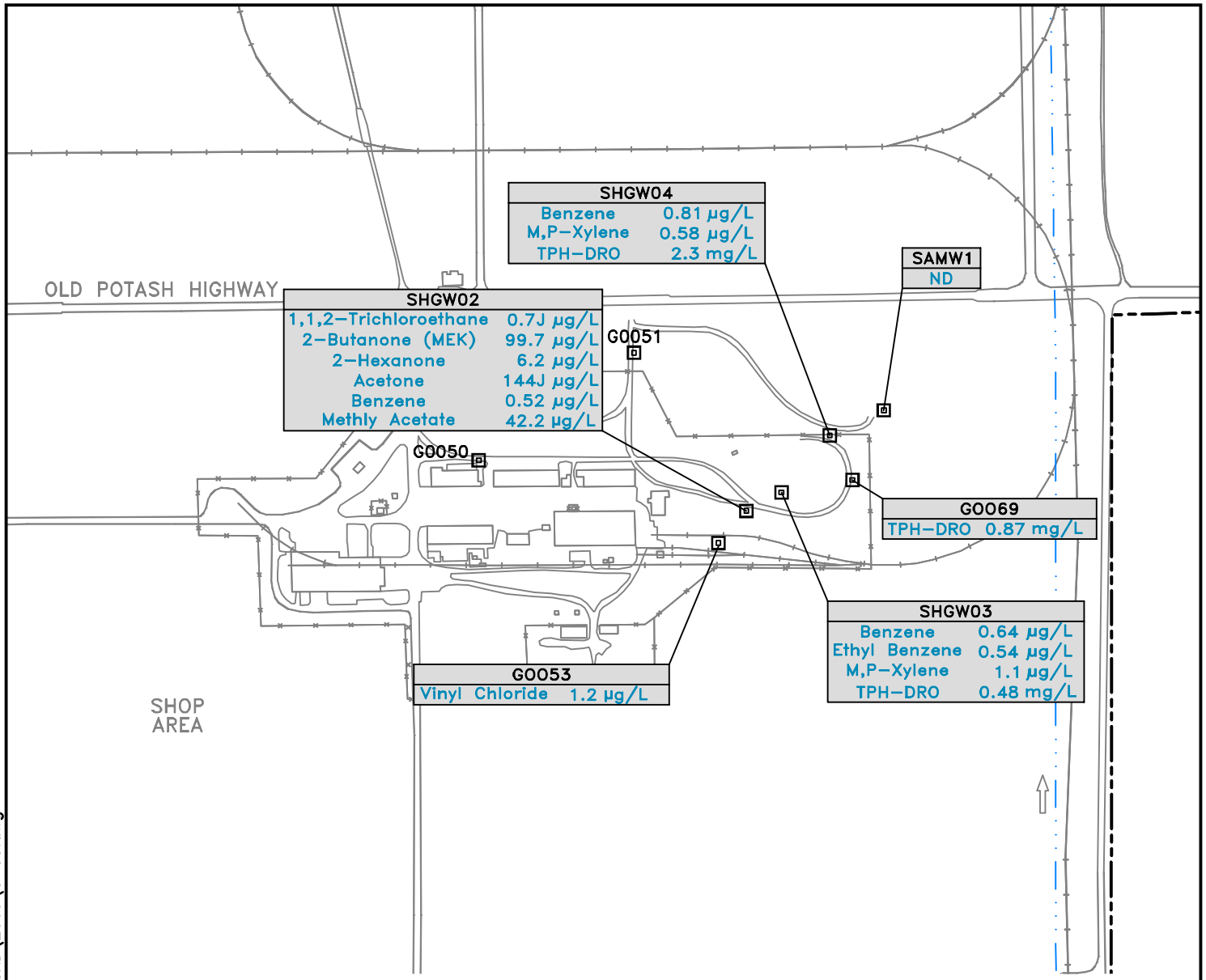
N

Bruce ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) AUGUST 2014
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–32
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:08:55 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–32.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
  VOC CONCENTRATIONS ARE LESS THAN MAXIMUM CONTAMINANT LEVEL (MCL) (1,1,2–TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2–TCA = 1,1,2–TRICHLOROETHANE
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH–DRO = TOTAL PETROLEUM HYDROCARBON–DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

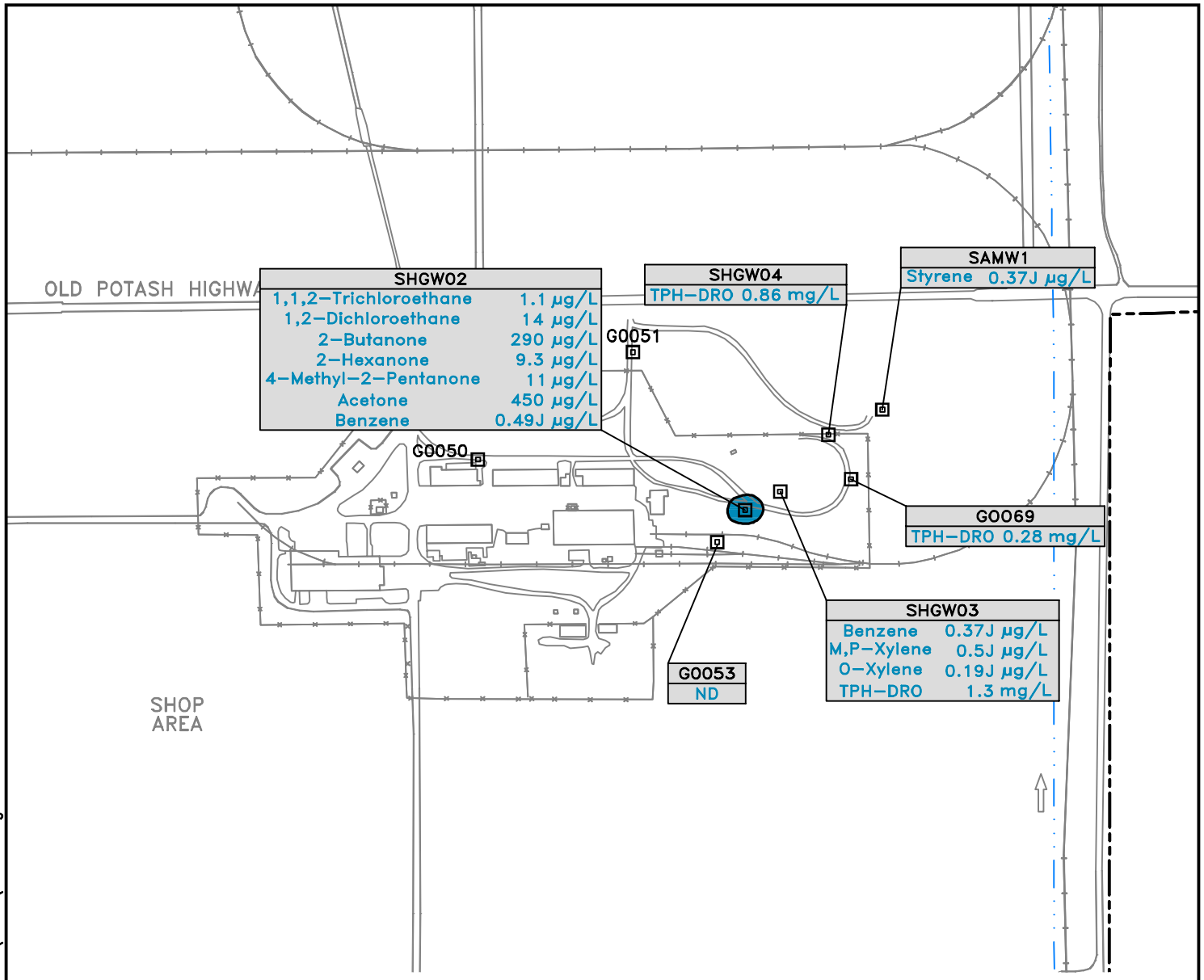
N

Bruce ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2012
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–33
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:09:50 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–33.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATION > MAXIMUM CONTAMINANT LEVEL (MCL) (1,2–DCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,2–DCA = 1,2–DICHLOROETHANE
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH–DRO = TOTAL PETROLEUM HYDROCARBON–DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

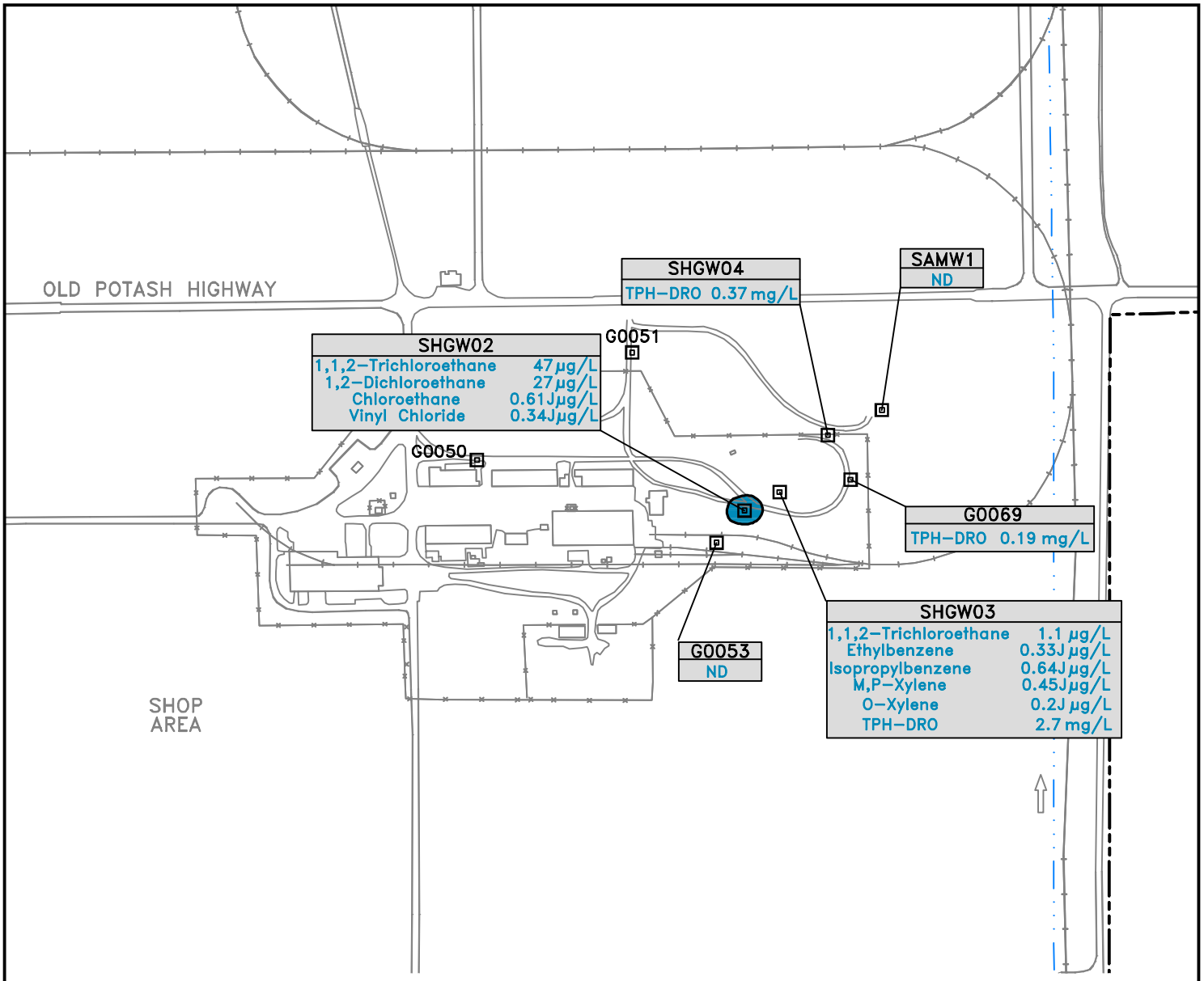
N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2010
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–34
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:10:30 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–34.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATION > MAXIMUM CONTAMINANT LEVEL (MCL) (1,1,2–TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2–TCA = 1,1,2–TRICHLOROETHANE
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH–DRO = TOTAL PETROLEUM HYDROCARBON–DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

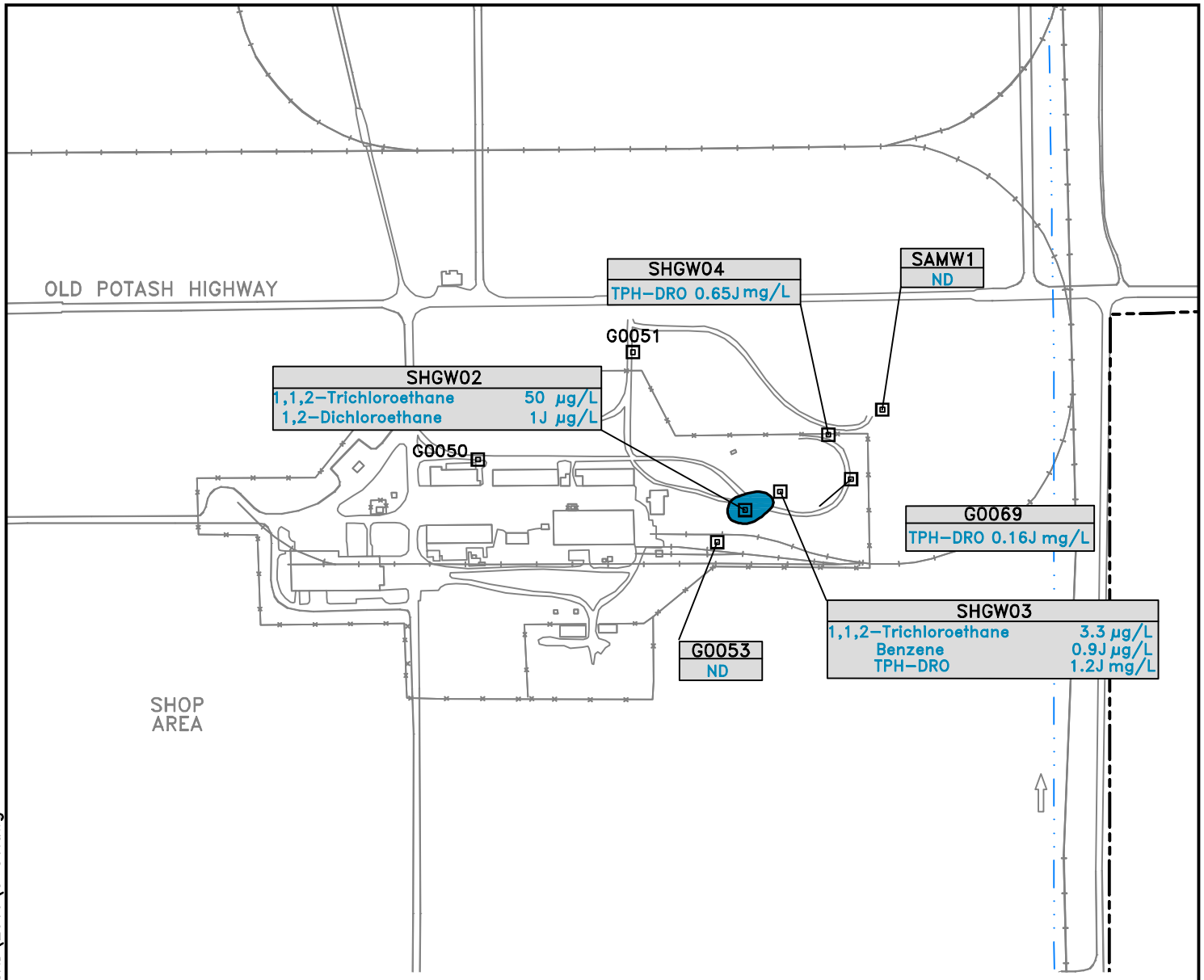
N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2008
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–35
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:11:15 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-35.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATION > MAXIMUM CONTAMINANT LEVEL (MCL) (1,1,2–TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2–TCA = 1,1,2–TRICHLOROETHANE
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH–DRO = TOTAL PETROLEUM HYDROCARBON–DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

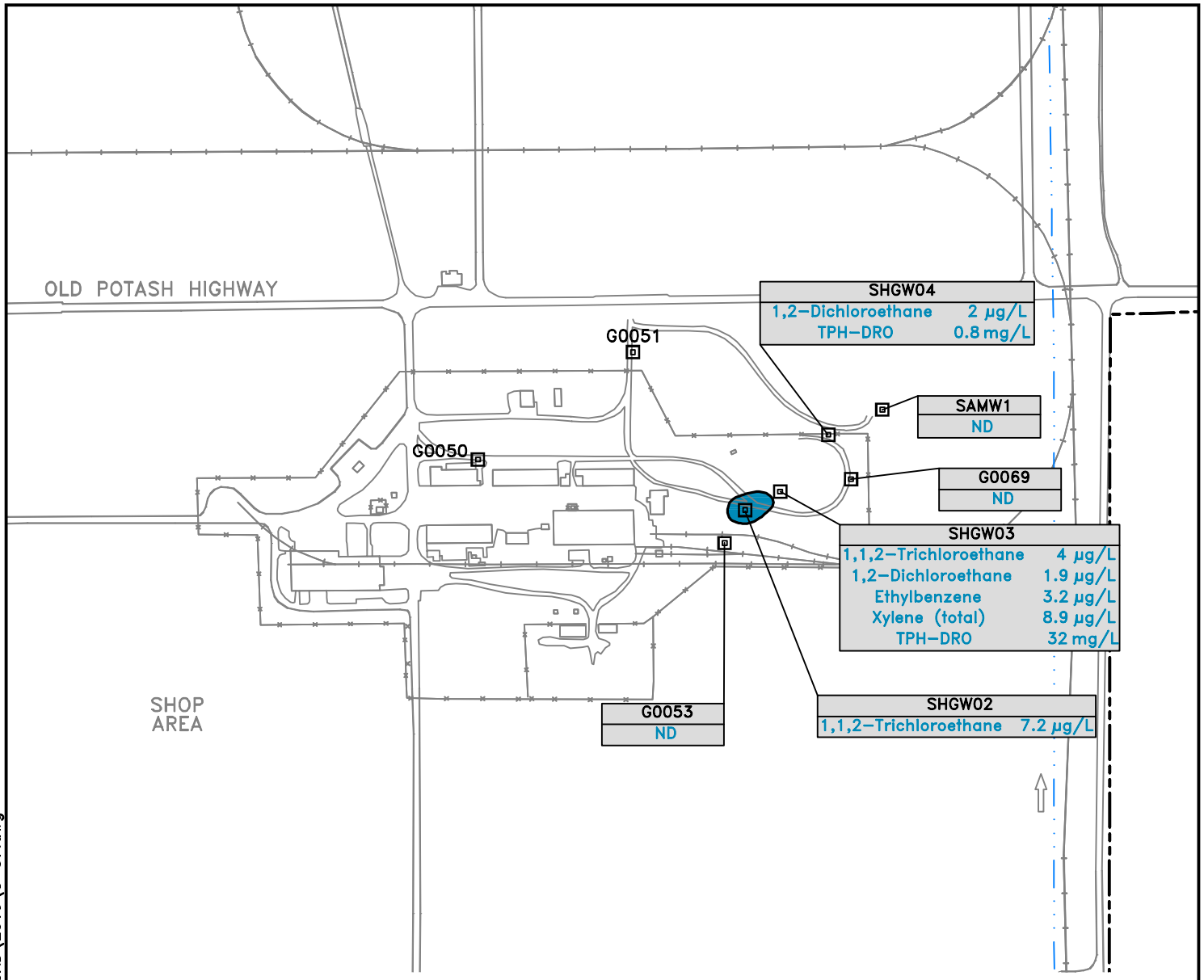
N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2006
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–36
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:12:03 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–36.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATION > MAXIMUM CONTAMINANT LEVEL (MCL) (1,1,2–TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2–TCA = 1,1,2–TRICHLOROETHANE
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND
TPH–DRO = TOTAL PETROLEUM HYDROCARBON–DIESEL RANGE ORGANICS

0 500 1000
SCALE FEET

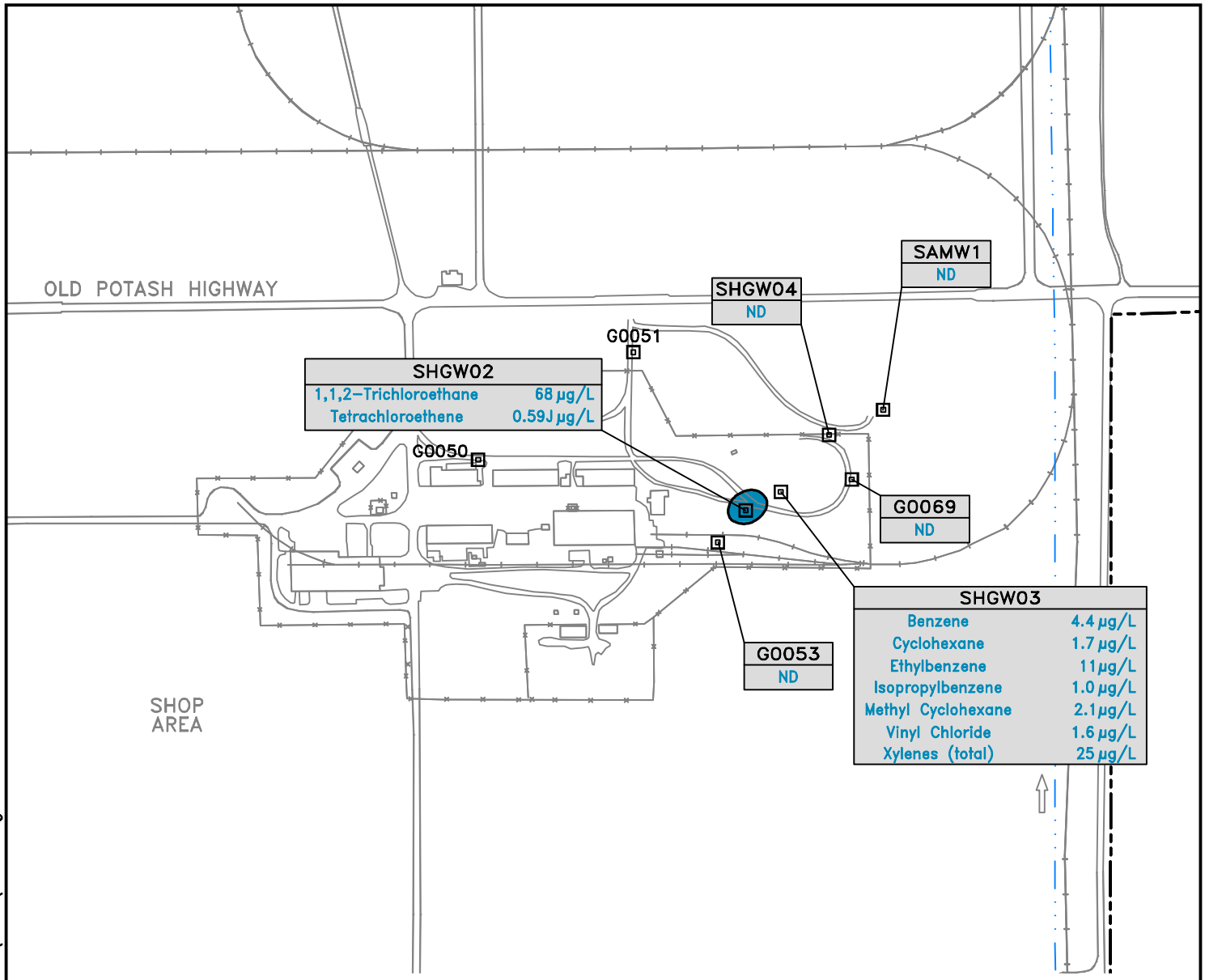
N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2004
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–37
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:12:44 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–37.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATION > MAXIMUM CONTAMINANT LEVEL (MCL) (1,1,2–TCA MCL IS 5 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2–TCA = 1,1,2–TRICHLOROETHANE
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND

0 500 1000
SCALE FEET

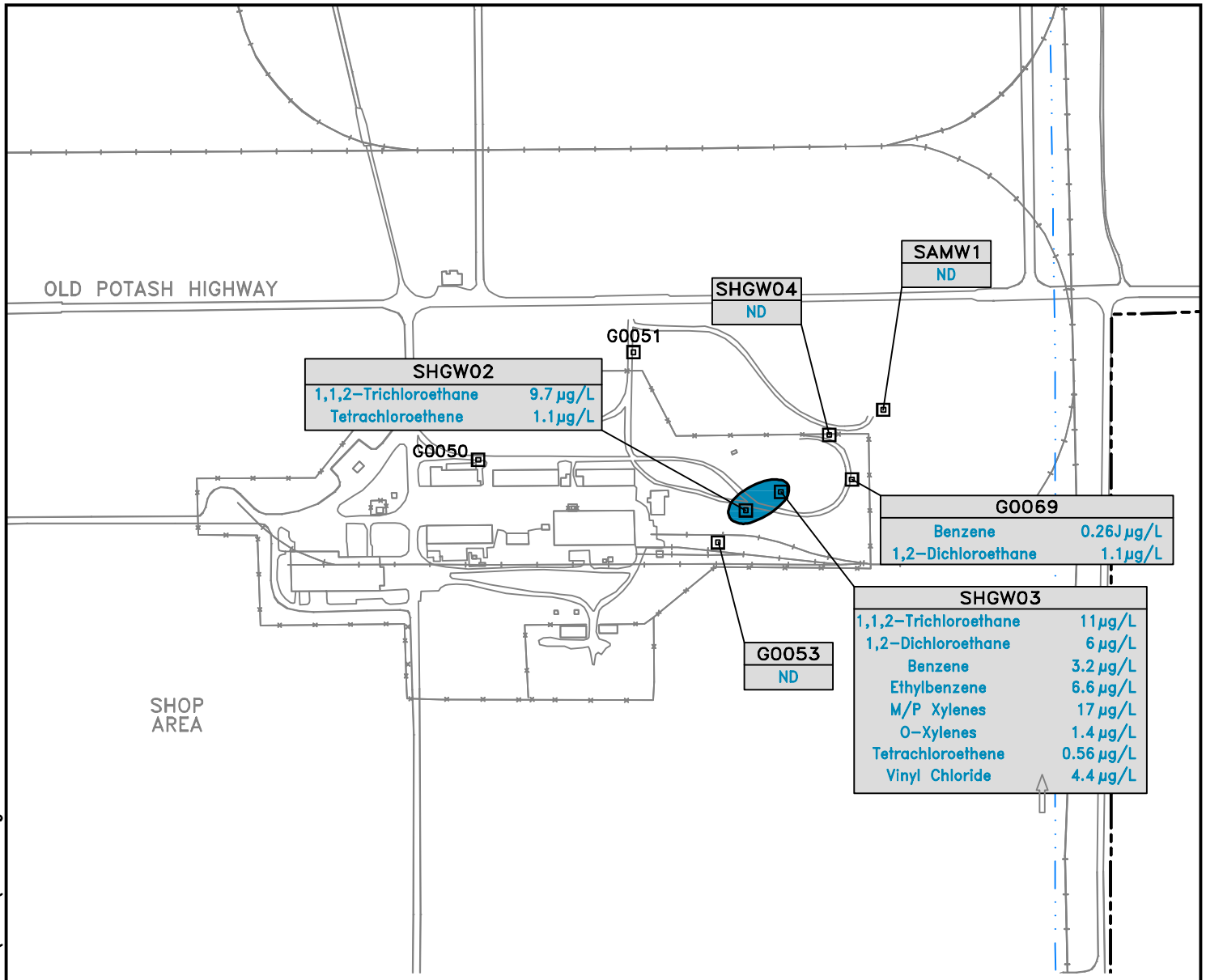
N

Bruce ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2002
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 09/19/19	PROJECT NO. 60565355	FIG. NO. 5–38
CHK'D. BY: DC	DATE: 09/19/19		

September 20, 2019 9:39:52 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5-38.dwg



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- VOC CONCENTRATION > MAXIMUM CONTAMINANT LEVEL (MCL) (1,1,2–TCA MCL IS 5 µg/L) (VINYL CHLORIDE MCL IS 2 µg/L)
- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION

1,1,2–TCA = 1,1,2–TRICHLOROETHANE
J = ESTIMATED QUALIFIER
Mg/L = MILLIGRAMS PER LITER
ND = NONDETECT
OU = OPERABLE UNIT
µg/L = MICROGRAMS PER LITER
VOC = VOLATILE ORGANIC COMPOUND

0 500 1000
SCALE FEET

N

Brice ENGINEERING AECOM

VOC PLUME
SHOP AREA (OU3) MARCH 2000
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 01/24/19	PROJECT NO. 60565355	FIG. NO. 5–39
CHK'D. BY: DC	DATE: 01/24/19		

December 23, 2019 1:14:09 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2019\5–39.dwg

TABLES INCLUDED:

Table F-1 Comparison of Measured Groundwater Elevations and Model-Predicted Groundwater Elevations – May 2021
Table F-2 Summary of Flow Model Calibration Statistics – May 2021
Table F-3 Contaminant Fate and Transport Input Parameters
Table F-4 Explosives Mass Estimations and Percent Reductions

FIGURES INCLUDED:

Figure F-1 Water Table Elevation Map – May 2021
Figure F-2 June 2020 RDX Input Concentrations
Figure F-3 June 2020 TNT Input Concentrations
Figure F-4 May/June 2021 RDX Input Concentrations
Figure F-5 May/June 2021 TNT Input Concentrations
Figure F-6 RDX and TNT Residual Source Concentrations
Figure F-7 Injection Treatment Zone Locations and Assigned Half-Life Values
Figure F-8 Model-Predicted RDX Transport Over 1 Year
Figure F-9 Model-Predicted RDX Transport Over 2 Years
Figure F-10 Model-Predicted RDX Transport Over 3 Years
Figure F-11 Model-Predicted RDX Transport Over 4 Years
Figure F-12 Model-Predicted RDX Transport Over 5 Years
Figure F-13 Model-Predicted RDX Transport Over 6 Years
Figure F-14 Model-Predicted RDX Transport Over 7 Years
Figure F-15 Model-Predicted RDX Transport Over 8 Years
Figure F-16 Model-Predicted RDX Transport Over 9 Year
Figure F-17 Model-Predicted RDX Transport Over 10 Years
Figure F-18 Model-Predicted RDX Transport Over 11 Years
Figure F-19 Model-Predicted RDX Transport Over 12 Years
Figure F-20 Model-Predicted RDX Transport Over 13 Years
Figure F-21 Model-Predicted TNT Transport Over 1 Year
Figure F-22 Model-Predicted TNT Transport Over 2 Years
Figure F-23 Model-Predicted TNT Transport Over 3 Years
Figure F-24 Model-Predicted TNT Transport Over 4 Years
Figure F-25 Model-Predicted TNT Transport Over 5 Years
Figure F-26 Model-Predicted TNT Transport Over 6 Year
Figure F-27 Model-Predicted TNT Transport Over 7 Years

TABLE F-1
COMPARISON OF MEASURED GROUNDWATER ELEVATIONS AND MODEL-PREDICTED GROUNDWATER ELEVATIONS - MAY 2021
2021 ANNUAL REPORT
CORNHUSKER ARMY AMMUNITION PLANT

Observation Location	Observation Well Name	Groundwater Elevation May 2021 (Feet Above Mean Sea Level)	Model-Predicted Baseline Groundwater Elevation (Feet Above Mean Sea Level)	Model-Predicted Head Difference (Feet)
On-Post Area				
	G0017	1899.18	1899.299	0.119
	G0022	1888.61	1889.221	0.611
	G0023	1890.14	1890.531	0.391
	G0024	1885.36	1885.957	0.597
	G0044	1905	1905.929	0.929
	G0066R	1895.19	1895.526	0.336
	G0067	1891.24	1891.467	0.227
	G0075	1887.25	1887.919	0.669
	G0080	1886.88	1887.594	0.714
	G0081	1887.71	1888.308	0.598
	G0082	1887.98	1888.559	0.579
	G0083	1888.39	1889.066	0.676
	G0084	1891.69	1892.326	0.636
	G0085	1892.37	1892.866	0.496
	G0086	1886.25	1886.8	0.550
	G0087	1886.6	1887.344	0.744
	G0088	1887.56	1888.307	0.747
	G0089	1887.93	1888.673	0.743
	G0090	1888.17	1888.902	0.732
	G0091	1885.261	1885.278	0.017
	G0093	1890.338	1890.64	0.302
	G0094	1891.059	1891.333	0.274
	G0095	1896	1895.623	-0.377
	G0096	1892.22	1891.487	-0.733
	G0097	1891.04	1891.355	0.315
	G0098	1890.89	1891.171	0.281
	G0099	1891.41	1891.569	0.159
	G0100	1895.21	1895.526	0.316
	G0101	1895.14	1895.553	0.413
	G0108	1890.6	1890.852	0.252
	G0109	1891.19	1891.343	0.153
	G0110	1890.63	1890.957	0.327

Notes:

[1]For the statistical calibration evaluation, the flow model calibration targets were subdivided by location into 1) On-Post Area, 2) Off-Post Area, and 3) City of Grand Island.

TABLE F-1
COMPARISON OF MEASURED GROUNDWATER ELEVATIONS AND MODEL-PREDICTED GROUNDWATER ELEVATIONS - MAY 2021
2021 ANNUAL REPORT
CORNHUSKER ARMY AMMUNITION PLANT

Observation Location	Observation Well Name	Groundwater Elevation May 2021 (Feet Above Mean Sea Level)	Model-Predicted Baseline Groundwater Elevation (Feet Above Mean Sea Level)	Model-Predicted Head Difference (Feet)
	G0111	1895.02	1895.363	0.343
	G0112	1890.55	1890.908	0.358
	G0113	1890.68	1890.952	0.272
	G0114	1891.01	1891.273	0.263
	G0115	1895.05	1895.323	0.273
	G0116	1893.54	1893.943	0.403
	G0117	1893.75	1894.307	0.557
	G0118	1890.8	1891.044	0.244
	G0119	1895.45	1895.823	0.373
	G0121	1895.67	1895.84	0.170
	PZ001	1904.69	1905.765	1.075
	PZ004	1904.62	1905.553	0.933
	PZ005	1903.56	1903.146	-0.414
	PZ007	1898.72	1898.956	0.236
	PZ009	1894.32	1894.682	0.362
	PZ010	1894.29	1894.643	0.353
	PZ011	1894.37	1894.773	0.403
	PZ012	1894.37	1894.883	0.513
	PZ013	1893.91	1894.385	0.475
	PZ014	1893.4	1893.887	0.487
	PZ015	1890.26	1890.63	0.370
	PZ016	1890.52	1890.835	0.315
	PZ017R	1885.47	1886.087	0.617
	PZ018	1885.57	1886.168	0.598
	PZ019	1885.85	1886.346	0.496
	PZ020	1885.25	1885.835	0.585
	SAMW1	1891.21	1891.371	0.161
	SHGW02	1891.72	1892.111	0.391
	SHGW03	1891.58	1891.973	0.393
	SHGW04	1891.28	1891.649	0.369
			Absolute Residual Mean	0.449

Notes:

[1]For the statistical calibration evaluation, the flow model calibration targets were subdivided by location into 1) On-Post Area, 2) Off-Post Area, and 3) City of Grand Island.

TABLE F-1
COMPARISON OF MEASURED GROUNDWATER ELEVATIONS AND MODEL-PREDICTED GROUNDWATER ELEVATIONS - MAY 2021
2021 ANNUAL REPORT
CORNHUSKER ARMY AMMUNITION PLANT

Observation Location	Observation Well Name	Groundwater Elevation May 2021 (Feet Above Mean Sea Level)	Model-Predicted Baseline Groundwater Elevation (Feet Above Mean Sea Level)	Model-Predicted Head Difference (Feet)
Off-Post Area	NW020	1885.105	1885.56	0.458
	NW060	1878.09	1878.47	0.38
	NW070	1876.77	1877.15	0.375
			Absolute Residual Mean	0.404
City of Grand Island	CA211	1879.07	1879.54	0.466
			Absolute Residual Mean	0.466

Notes:

[1]For the statistical calibration evaluation, the flow model calibration targets were subdivided by location into 1) On-Post Area, 2) Off-Post Area, and 3) City of Grand Island.

TABLE F-2
SUMMARY OF FLOW MODEL CALIBRATION STATISTICS - MAY 2021
2021 ANNUAL REPORT
CORNHUSKER ARMY AMMUNITION PLANT

Observation Location	Number of Calibration Data Points	Absolute Residual Mean (feet)	Total Head Change Within Flow Region (feet)	Absolute Residual Mean as a Percentage of Total Head Change (%)
On-Post Area	62	0.449	19.75	2.272
Off-Post Area	3	0.404	8.335	4.851
City of Grand Island	1	0.466	28.23	1.651
Total Model	66	0.447	28.23	1.583

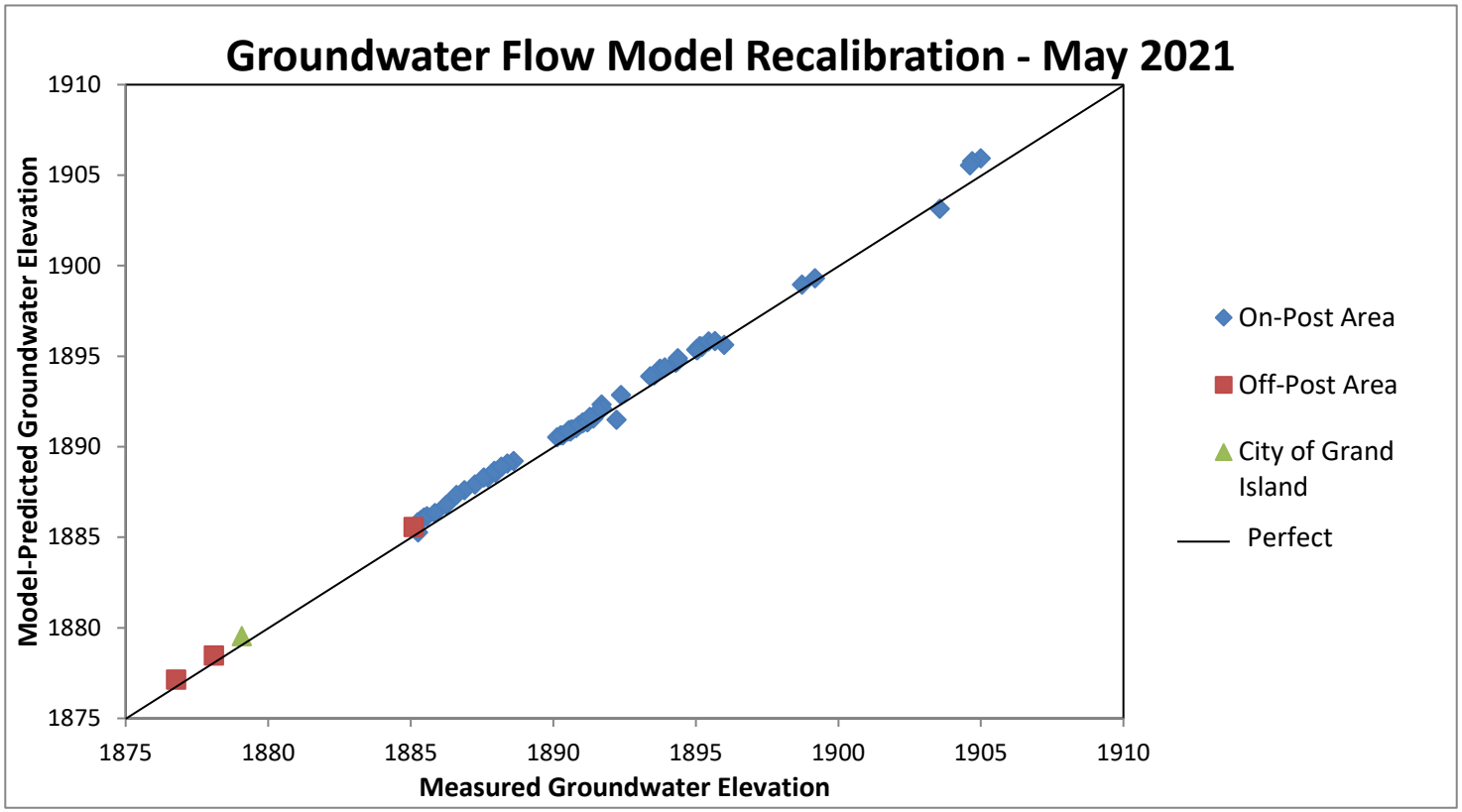


TABLE F-3
CONTAMINANT FATE AND TRANSPORT MODEL INPUT PARAMETERS
2021 ANNUAL REPORT
CORNHUSKER ARMY AMMUNITION PLANT

	Aquifer Parameters		Contaminant Parameters						
Contaminant	Bulk Density	Total Organic Carbon	Half-Life[1] (Natural Attenuation)	Half-Life[1] (2020 Wall[2])	Half-Life[1] (Downgradient)	Half-Life[1] (Continuous Source)	Sorption Coefficient (Kd)	Organic Carbon / Water Partition Coefficient (Koc)	Range of Continuous Source Concentrations[3]
RDX	118 lb/ft^3	0.00089	7.3 years	0.12	0.92 - 5.85	1-2 year(s)	6.5E-10 µg/L	73 mL/g	0 to 82 µg/L
TNT			5.7 years	0.19	0.86 - 2.88	1-2 year(s)	4.7E-10 µg/L	525 mL/g	0 to 19 µg/L

Notes:

The parameters presented here are relevant to the OU1 RAO injection area and were used to calculate the contaminant masses in the OU1 RAO injection area. Aquifer and contaminant parameters not listed here are presented in Groundwater Flow and Contaminant Fate and Transport Modeling (URS 2001).

[1]Half-Life is entered as First-Order Irreversible Decay ($\lambda=t_{1/2}\ln 2$) in VisualMODFLOW 4.0.

[2]The location of each injection wall is shown on **Figure F-7**.

[3]The locations of the continuous source concentrations are shown on **Figure F-6**.

µg = micrograms

n/a = not applicable

ft^3 = cubic feet

g = grams(s)

lb = pound(s)

mL = mililiters

OU1 RAO = Operable Unit 1 Remedial Action Operation

RDX = hexahydro- 1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene

TABLE F-4
EXPLOSIVES MASS ESTIMATIONS AND PERCENT REDUCTIONS
2020 ANNUAL REPORT
CORNHUSKER ARMY AMMUNITION PLANT

June 2020			
Explosives Parameter(s)	**Load Line Treatment Areas (mass in pounds)**	**Between EW6 and EW7 Treatment Area (mass in pounds)**	**Total Area (mass in pounds)**
RDX	1.43	1.25	2.68
TNT	0.68	22.94	23.62
RDX+TNT	2.11	24.12	26.23

May/June 2021					
Explosive Parameter(s)	**Load Line Treatment Areas (mass in pounds)**	**Between EW6 and EW7 Treatment Area (mass in pounds)**	**Total Area (mass in pounds)**	**Load Line Treatment Areas (percent reduction since 2020)**	**Between EW6 and EW7 Treatment Area (percent reduction since 2020)**
RDX	1.43	0.12	1.55	0.00%	90.8%
TNT	0.56	19.67	20.23	17.6%	14.3%
RDX+TNT	1.99	19.78	21.77	5.7%	18.0%

Notes:

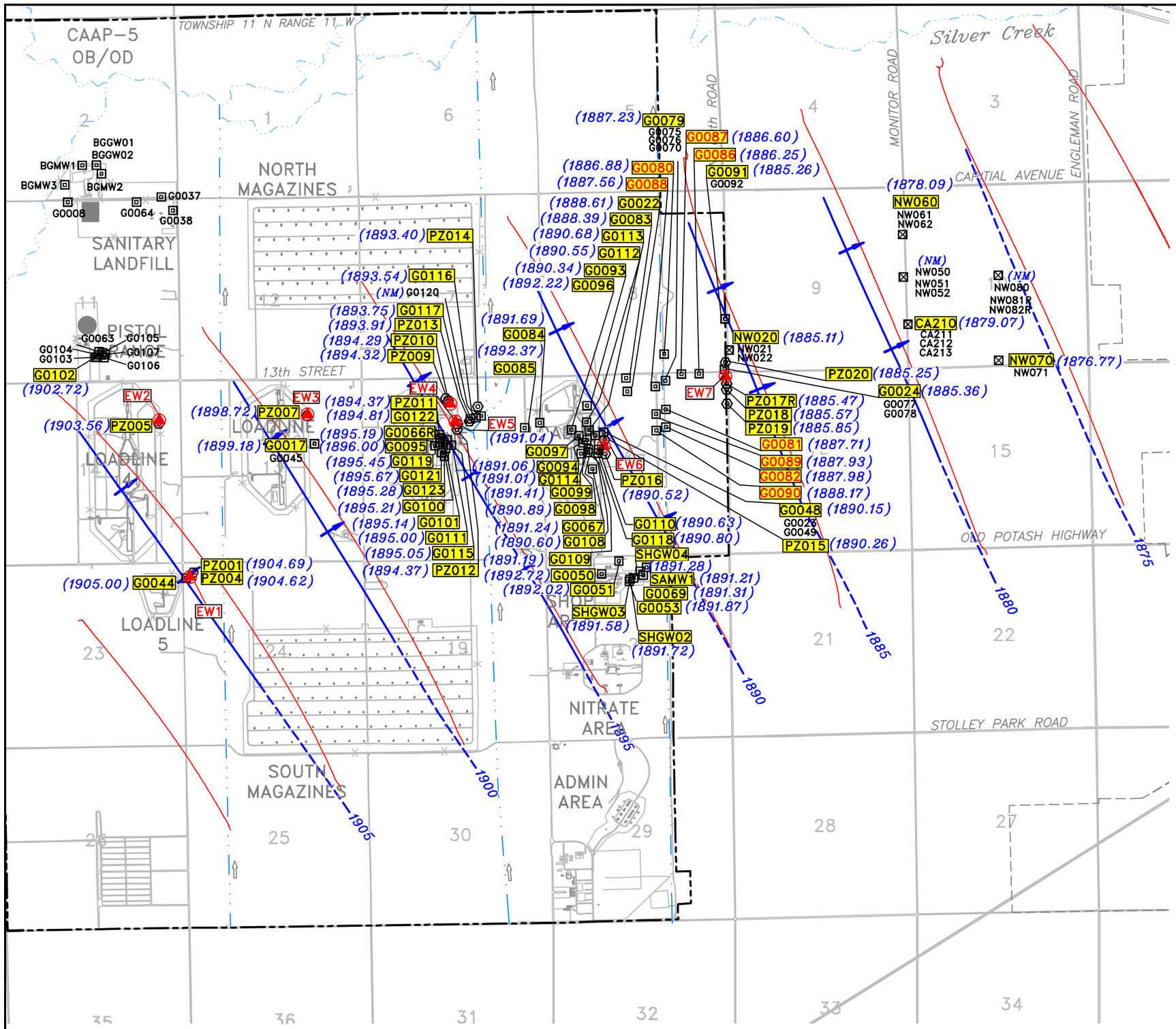
The explosives mass was estimated using the CHAAP groundwater contaminant fate and transport model.

% = percent

CHAAP = Cornhusker Army Ammunition Plant

RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine

TNT = 2,4,6-trinitrotoluene



LEGEND:

- ON–POST GROUNDWATER MONITORING WELL
- OFF–POST GROUNDWATER MONITORING WELL
- ON–POST PIEZOMETER
- INACTIVE GROUNDWATER EXTRACTION WELL
- G0029 — SHALLOW WATER TABLE SURFACE WELLS MEASURED TO CONSTRUCT THE MAP (TOP GRAND ISLAND FORMATION)
- G0033 — SHALLOW–INTERMEDIATE WELLS MEASURED TO CONSTRUCT THE MAP (MIDDLE GRAND ISLAND FORMATION)
- ROADS
- FACILITY BOUNDARY
- GRAND ISLAND CITY LIMITS
- SURFACE DRAINAGE
- 1890 — WATER TABLE ELEVATION CONTOURS – MAY 2021 (FEET ABOVE MEAN SEA LEVEL)
- INFERRED WATER TABLE ELEVATION CONTOURS – MAY 2021 (FEET ABOVE MEAN SEA LEVEL)
- MODEL–PREDICTED WATER TABLE ELEVATION CONTOURS – MAY 2021
- INTERPRETED GROUNDWATER FLOW DIRECTION
- 1 — SECTION NUMBER
- NM — NOT MEASURED

N

0 4000 8000

SCALE FEET

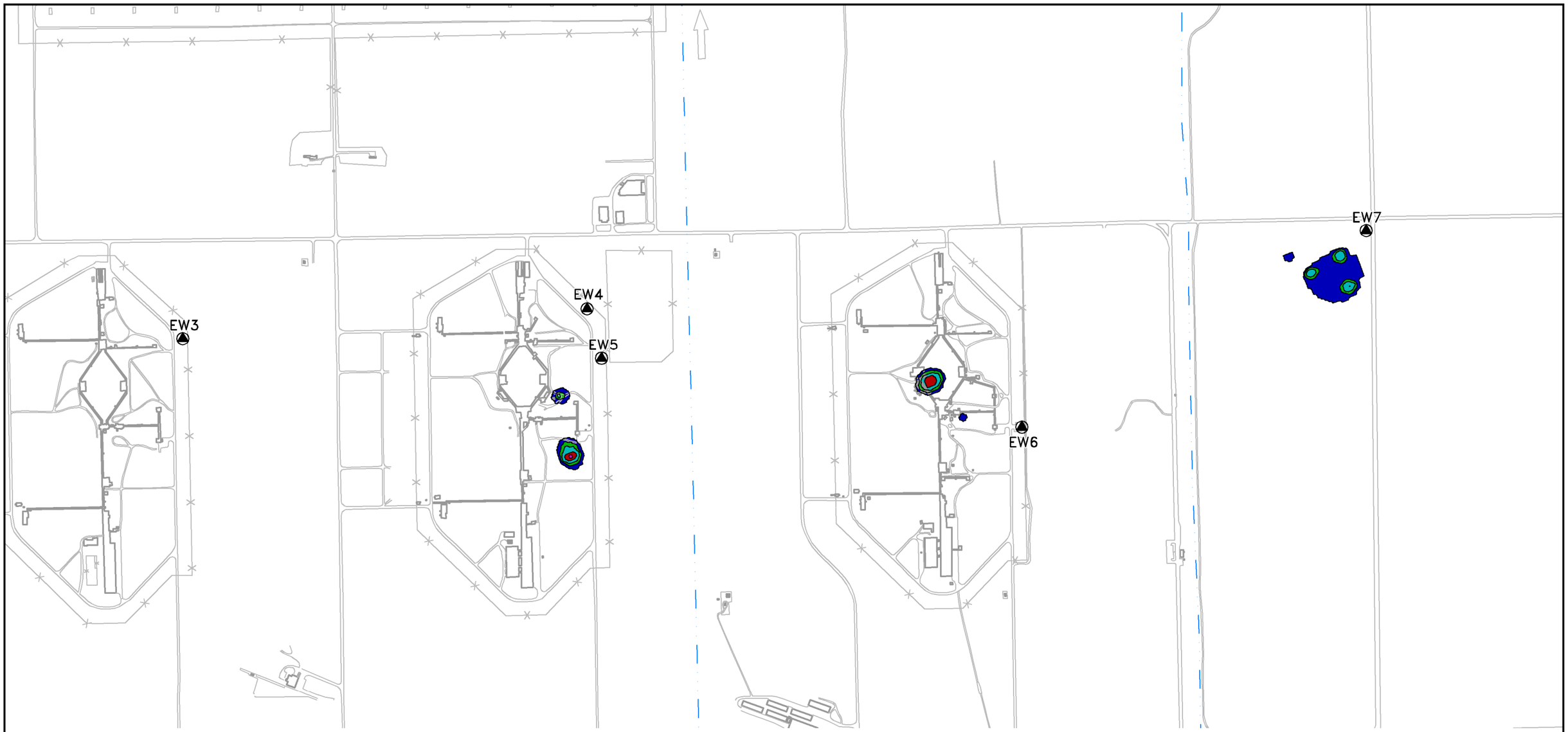
Bruce ENGINEERING

AECOM

WATER TABLE ELEVATION MAP – MAY 2021
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 09/21/20	PROJECT NO. 60565355	FIG. NO. F–1
CHK'D. BY: KW	DATE: 09/21/20		

September 22, 2021 8:07:38 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F–1.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L
- RDX CONCENTRATIONS >20 µg/L
- RDX CONCENTRATIONS >40 µg/L
- RDX CONCENTRATIONS >70 µg/L

N

1000 500 0 1000

SCALE IN FEET

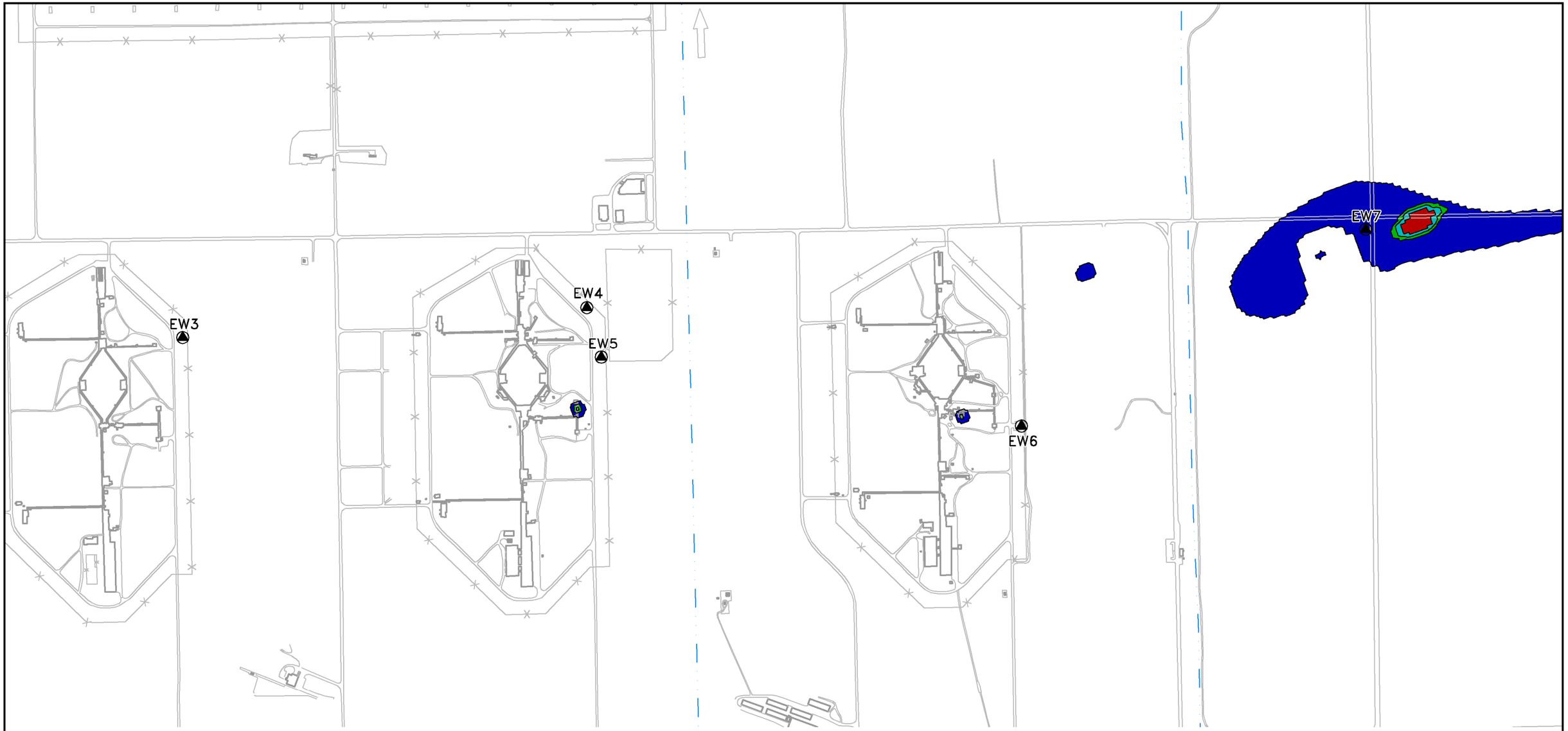
Bryce ENGINEERING

AECOM

JUNE 2020 VMODFLOW RDX INPUT CONCENTRATIONS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/06/20	PROJECT NO. 60565355	FIG. NO. F-2
CHK'D. BY: KW	REVISION: 0		

September 22, 2021 8:12:58 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-2.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- TNT CONCENTRATIONS >2 µg/L
- TNT CONCENTRATIONS >5 µg/L
- TNT CONCENTRATIONS >10 µg/L
- TNT CONCENTRATIONS >20 µg/L

N

1000 500 0 1000

SCALE IN FEET

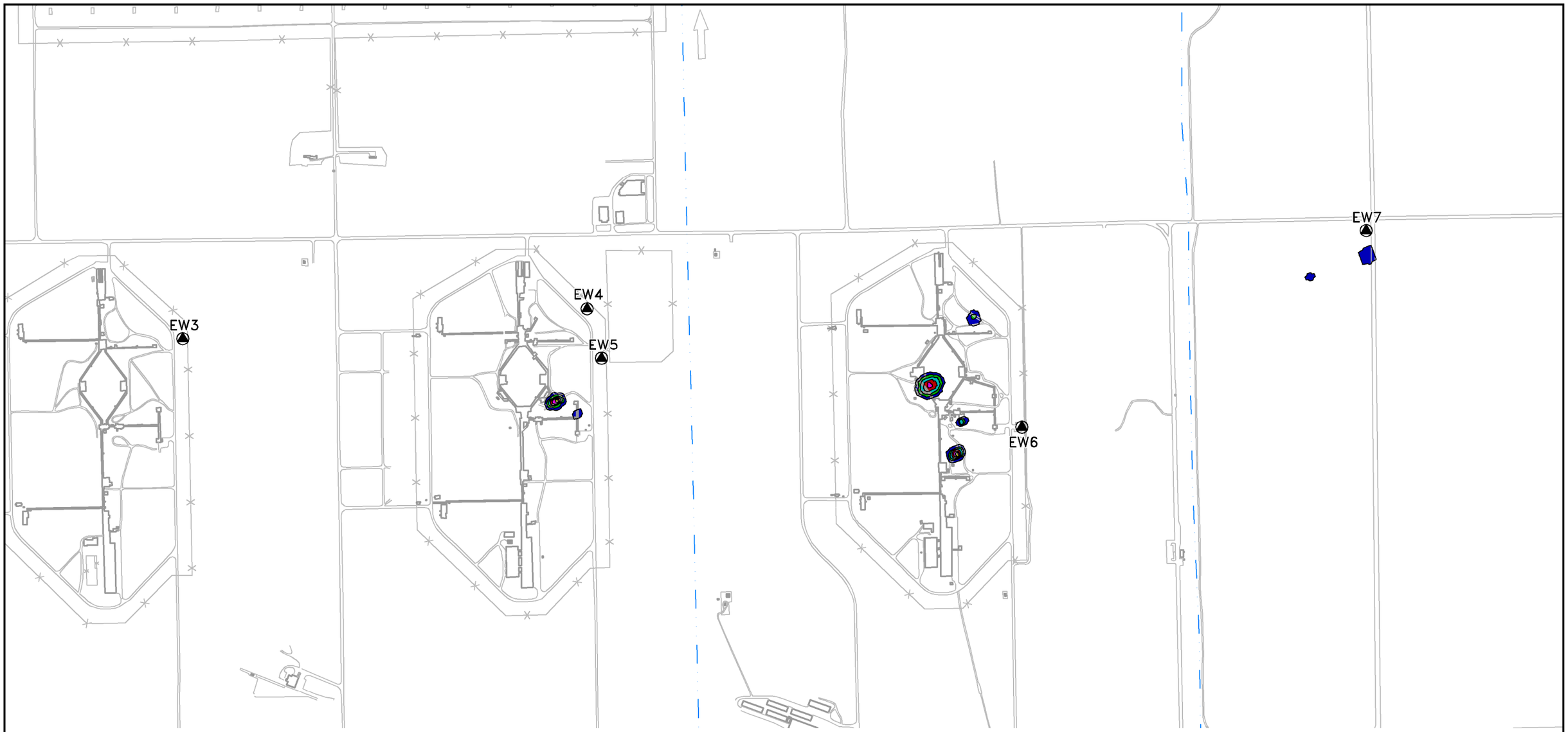
Bruce ENGINEERING

AECOM

JUNE 2020 VMODFLOW TNT INPUT CONCENTRATIONS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/06/20	PROJECT NO. 60565355	FIG. NO. F-3
CHK'D. BY: KW	REVISION: 0		

September 22, 2021 8:14:07 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-3.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L
- RDX CONCENTRATIONS >20 µg/L
- RDX CONCENTRATIONS >40 µg/L
- RDX CONCENTRATIONS >70 µg/L

N

1000 500 0 1000

SCALE IN FEET

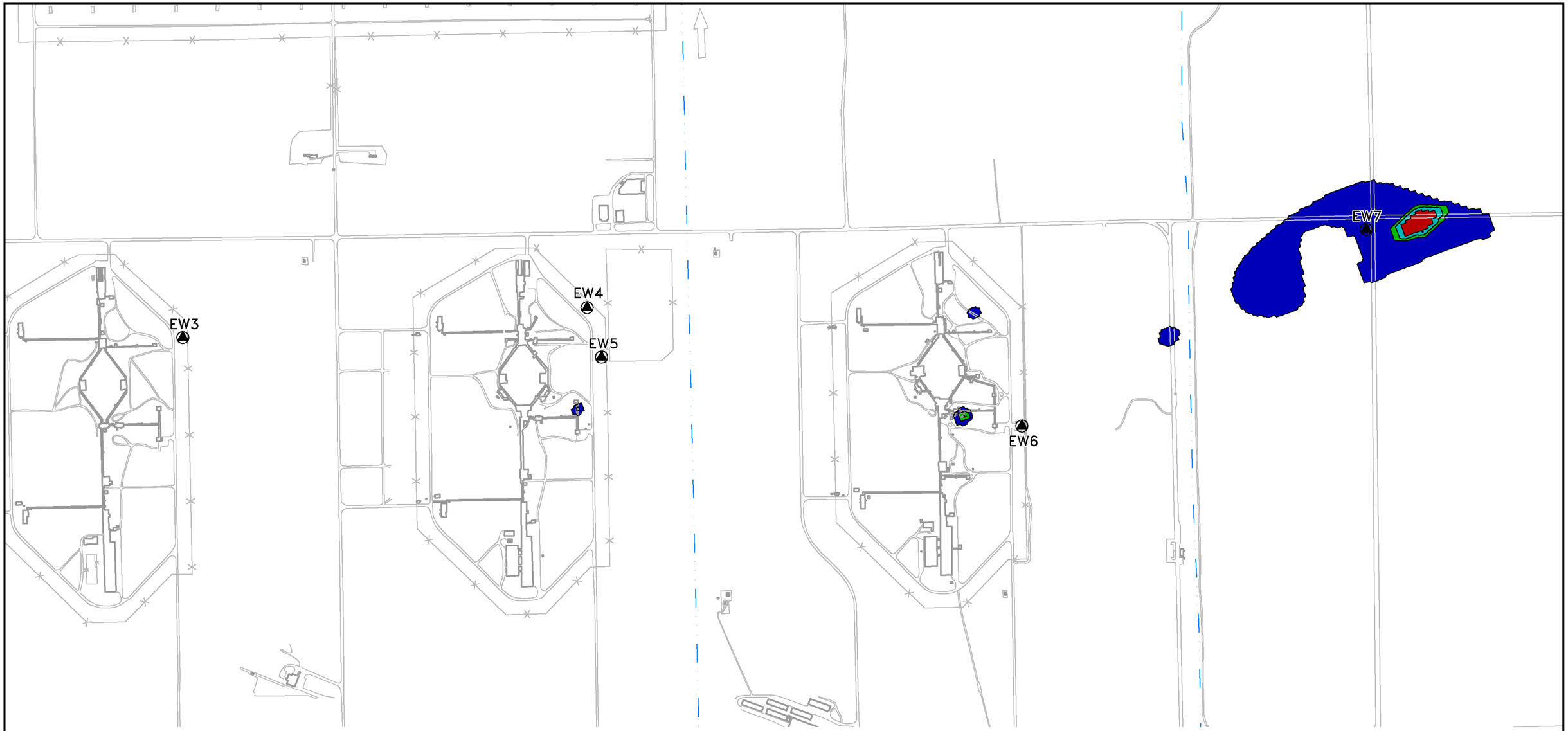
Bryce ENGINEERING

AECOM

MAY/JUNE 2021 VMODFLOW RDX INPUT CONCENTRATIONS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/06/21	PROJECT NO. 60565355	FIG. NO. F-4
CHK'D. BY: KW	REVISION: 0		

October 05, 2021 11:27:02 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-4.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- TNT CONCENTRATIONS >2 µg/L
- TNT CONCENTRATIONS >5 µg/L
- TNT CONCENTRATIONS >10 µg/L
- TNT CONCENTRATIONS >20 µg/L

N

1000 500 0 1000

SCALE IN FEET

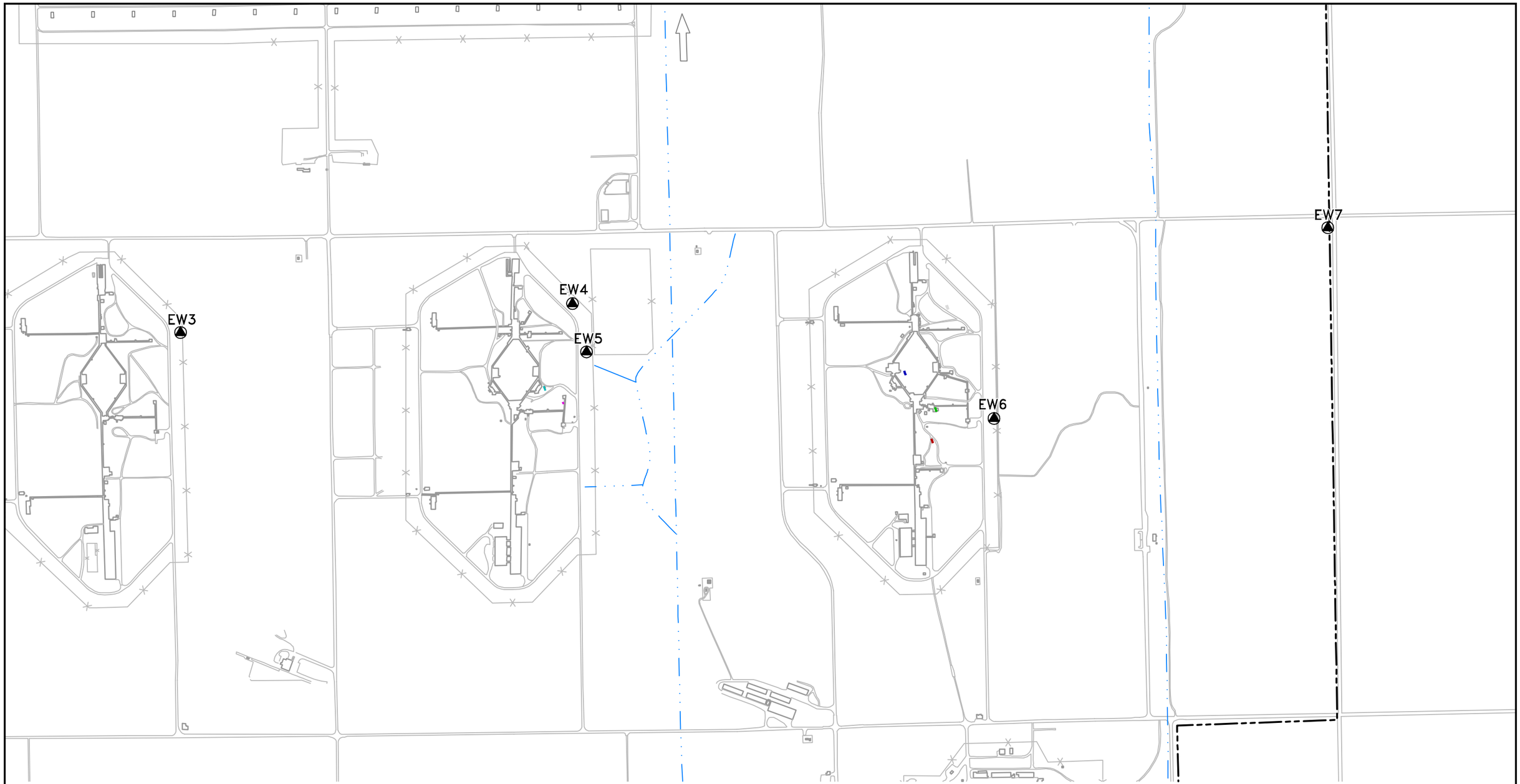
Bruce ENGINEERING

AECOM

MAY/JUNE 2021 VMODFLOW TNT INPUT CONCENTRATIONS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/06/21	PROJECT NO. 60565355	FIG. NO. F-5
CHK'D. BY: KW	REVISION: 0		

October 05, 2021 12:42:56 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-5.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

CONTINUOUS SOURCE CONCENTRATIONS ($\mu g/L$)

RDX	TNT
58	0
8.1	19
82	0
97	0
6.5	6.6
7.8	3.4

N

1000 500 0 1000

SCALE IN FEET

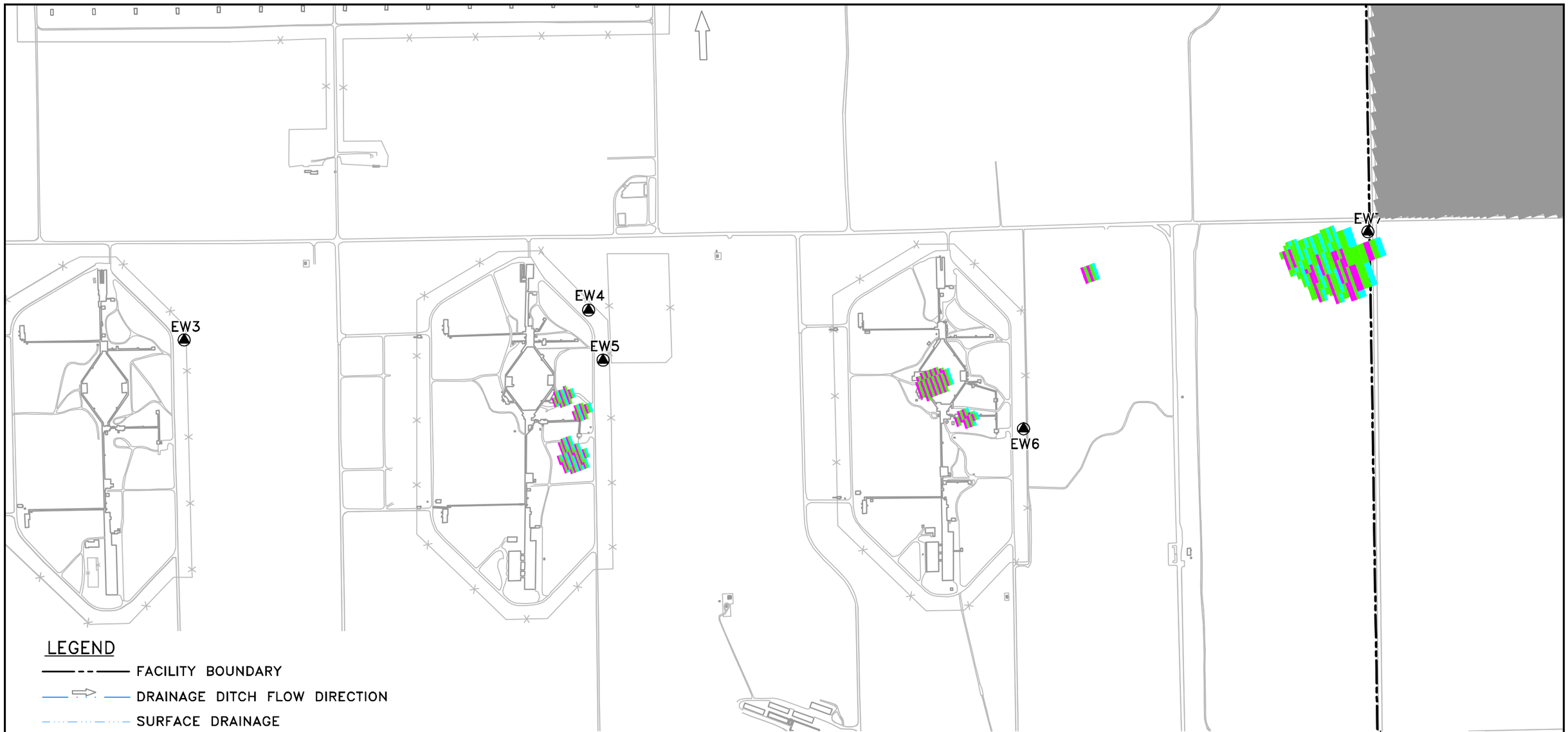
October 05, 2021 12:50:23 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-6.dwg

Brice ENGINEERING

AECOM

RDX AND TNT CONTINUOUS SOURCE CONCENTRATIONS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/21	PROJECT NO. 60565355	FIG. NO. F-6
CHK'D. BY: KW	REVISION: 0		



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 — GROUNDWATER EXTRACTION WELL

NOTE:

1. TREATMENT ZONES SHOWN ARE IN LAYERS 1 AND 2 OF THE CHAAP MODEL
2. LAYER 3 HAS A NATURAL ATTENUATION HALF-LIFE OF 2.7 YEARS FOR TNT AND 4.3 YEARS FOR RDX
3. FEEDLOT TREATMENT ZONE IS ACTIVE IN ALL THREE LAYERS
4. WESBLEND TREATMENT WALLS INJECTED IN 2016 AND PRIOR ARE SET AT THE NATURAL ATTENUATION RATE IN THE CHAAP MODEL BECAUSE THE WALLS ARE NO LONGER EFFECTIVE (NOT SHOWN).

	HALF-LIFE (IN YEARS)	
	TNT	RDX
2019 AND 2020 DOWNGRADIENT TREATMENT ZONE	2.88	5.85
2020 TREATMENT WALL	0.019	0.12
2019 TREATMENT WALL AND 2020 DOWNGRADIENT TREATMENT ZONE	0.86	0.92
FEEDLOT TREATMENT ZONE	2.4	3.6
NATURAL ATTENUATION	5.7	7.3

2000 1000 0 2000

SCALE IN FEET

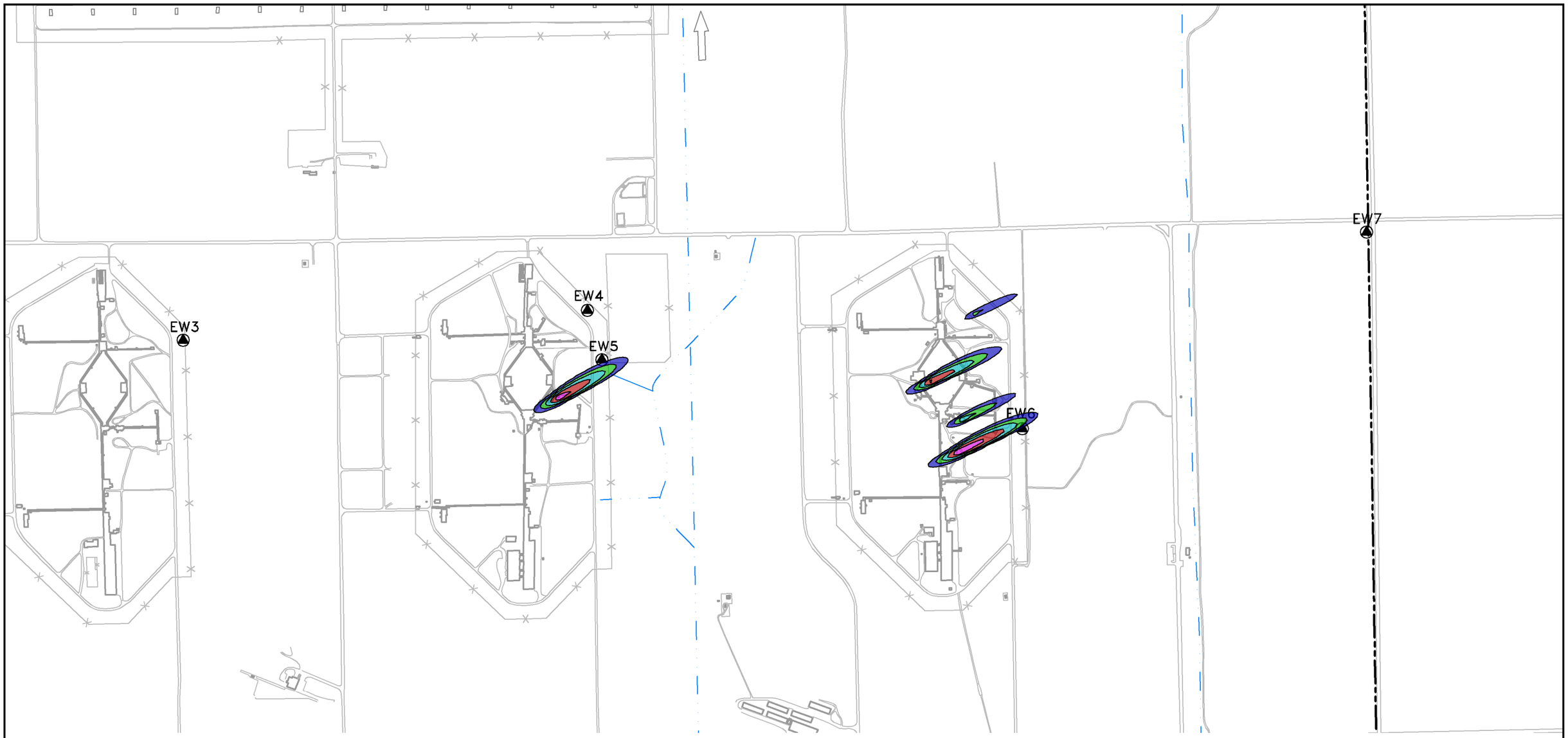
N

Bryce ENGINEERING AECOM

INJECTION TREATMENT ZONE LOCATIONS AND ASSIGNED HALF-LIFE VALUES
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/20	PROJECT NO. 60565355	FIG. NO. F-7
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 8:36:19 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-7.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L
- RDX CONCENTRATIONS >20 µg/L
- RDX CONCENTRATIONS >40 µg/L

N

1000 500 0 1000

SCALE IN FEET

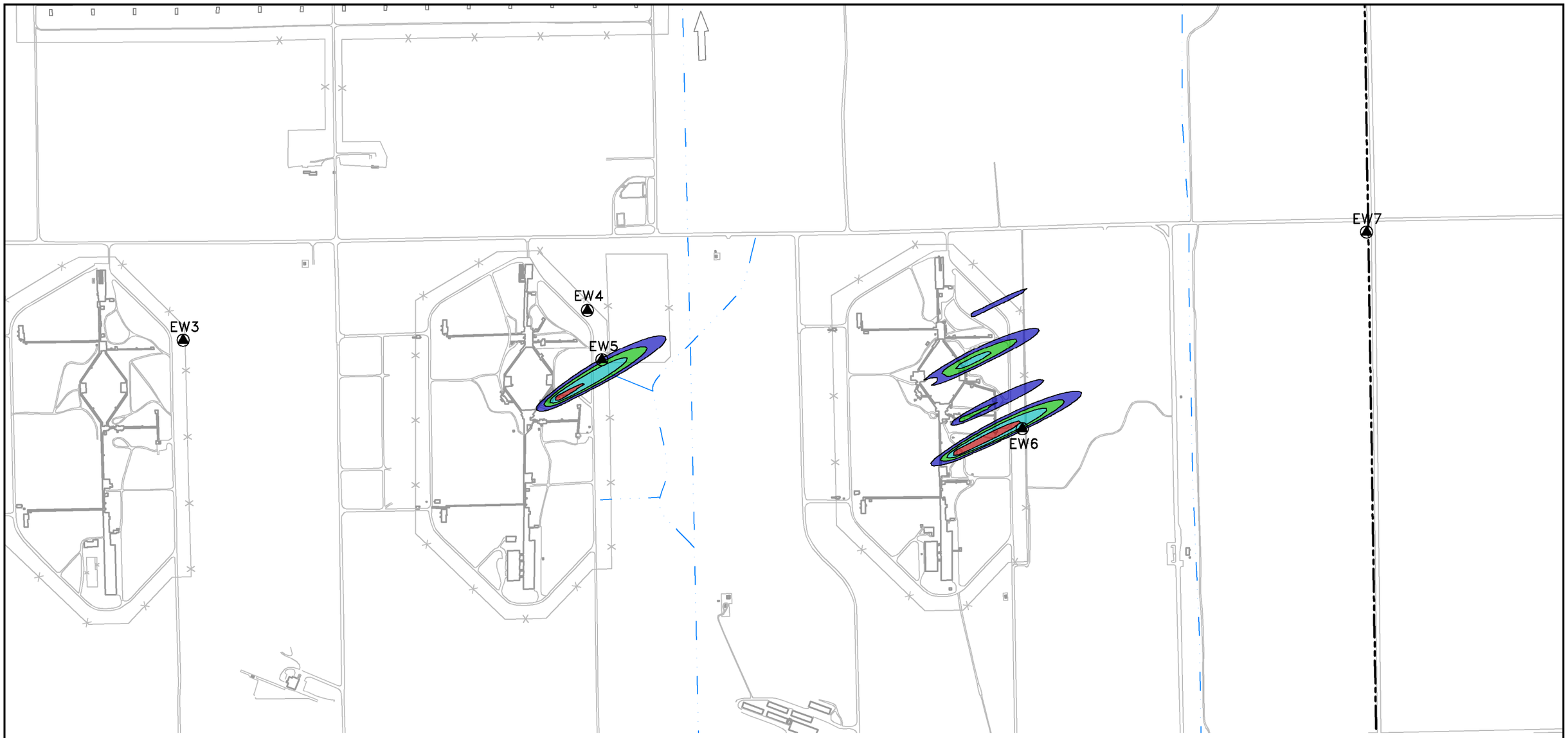
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 1 YEAR
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/21	PROJECT NO. 60565355	FIG. NO. F-8
CHK'D. BY: DW	REVISION: 0		

October 21, 2021 8:49:00 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-8.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L
- RDX CONCENTRATIONS >20 µg/L

N

1000 500 0 1000

SCALE IN FEET

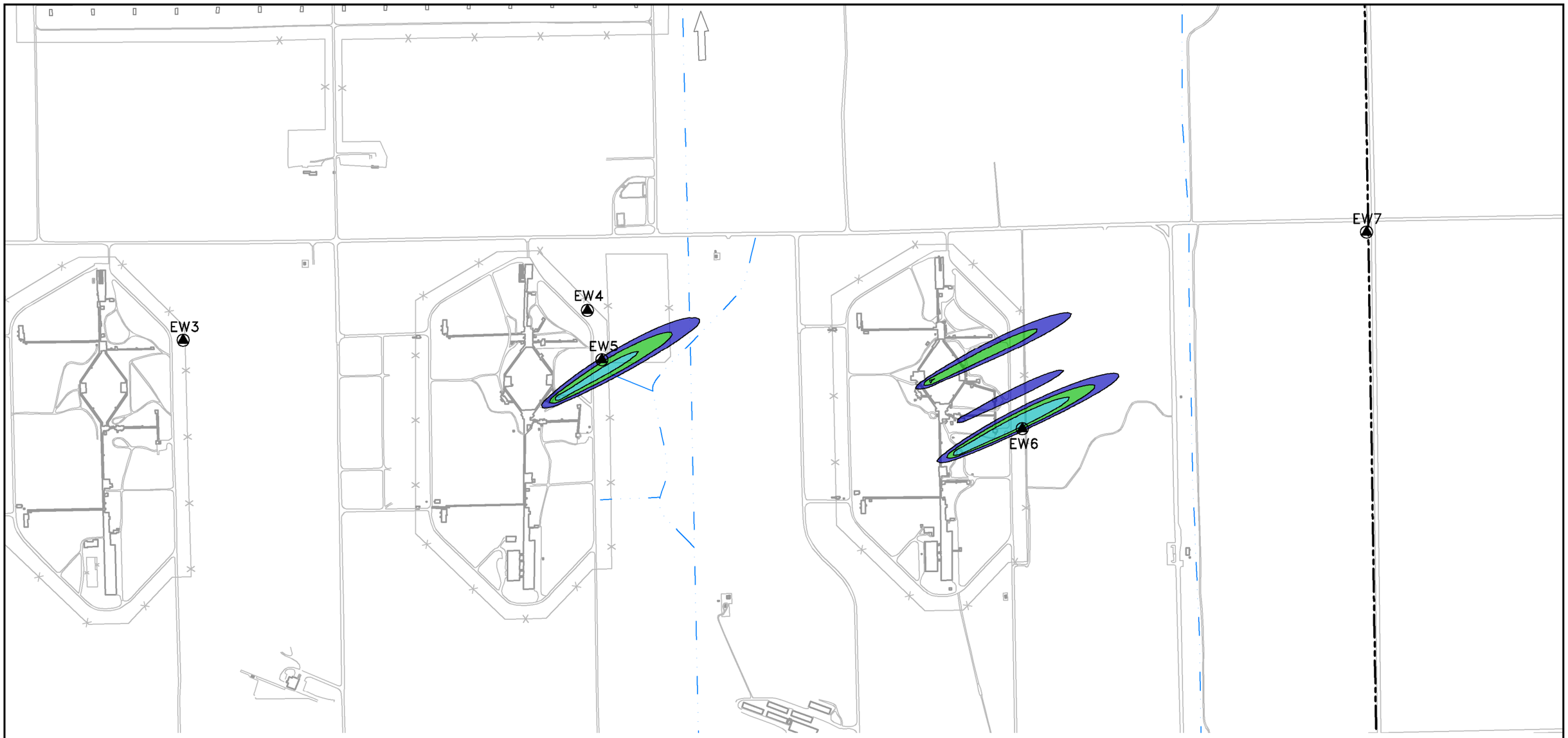
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 2 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/21	PROJECT NO. 60565355	FIG. NO. F-9
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 9:05:38 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-9.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L
- RDX CONCENTRATIONS >20 µg/L

N

1000 500 0 1000

SCALE IN FEET

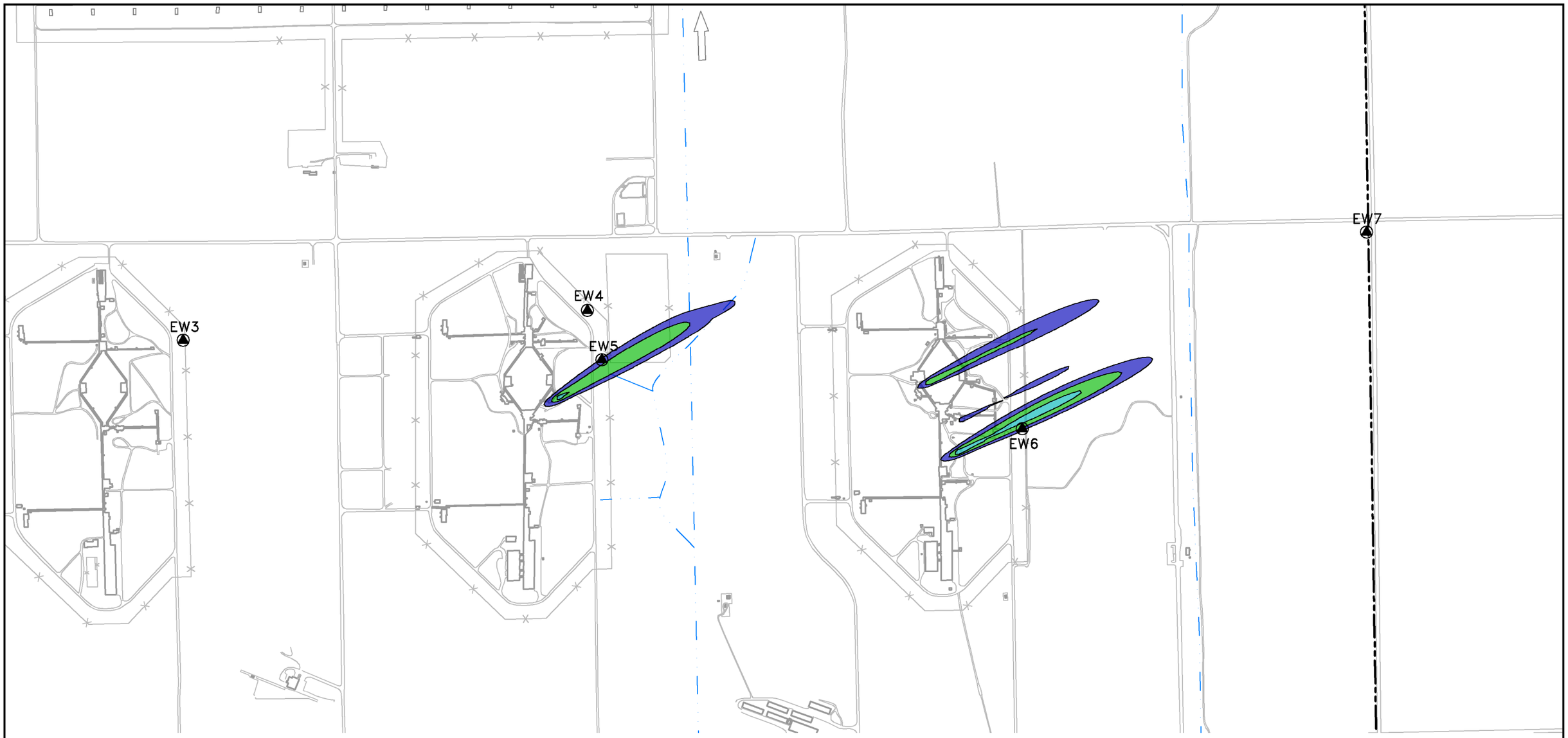
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 3 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/21	PROJECT NO. 60565355	FIG. NO. F-10
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 9:12:10 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-10.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L

N

1000 500 0 1000

SCALE IN FEET

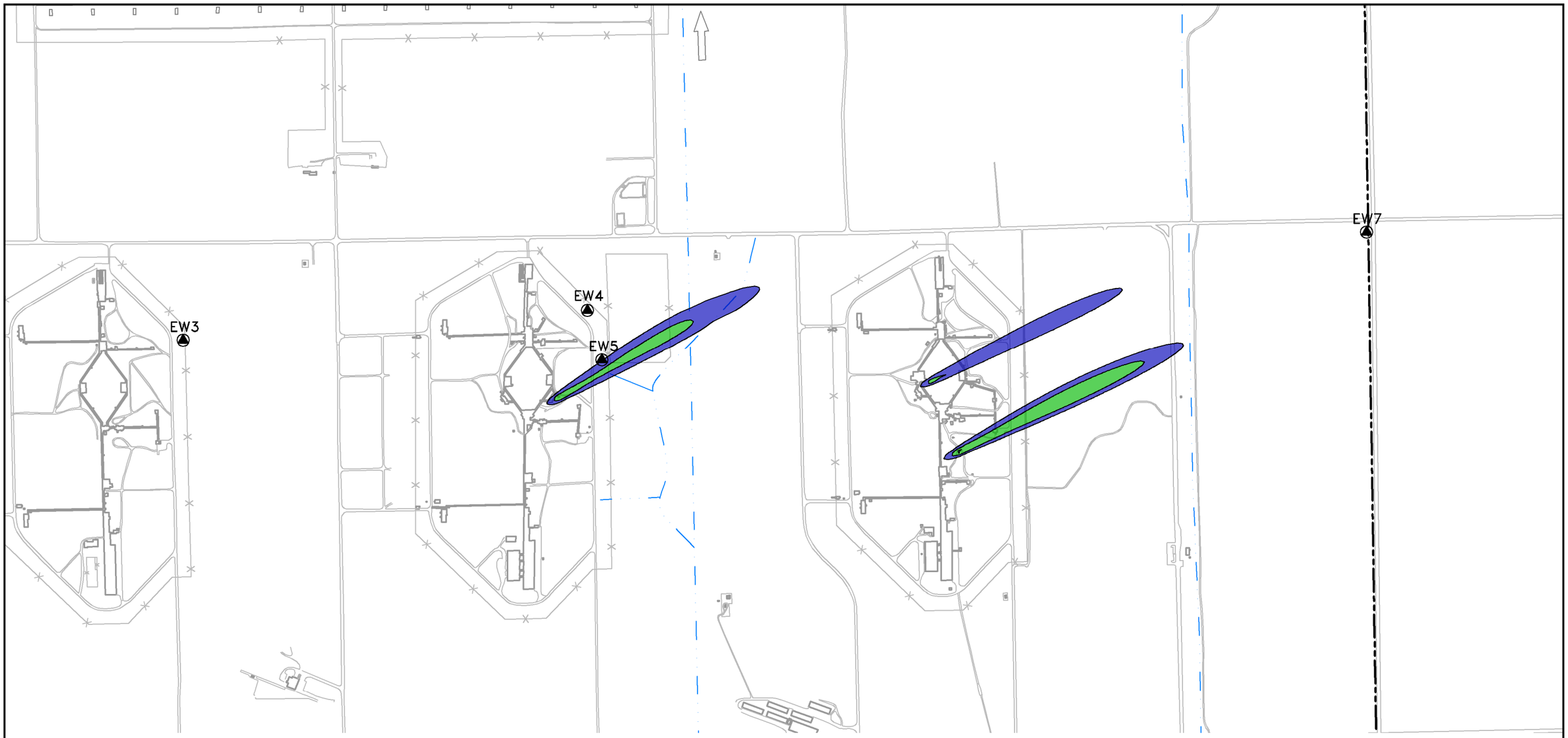
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 4 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/21	PROJECT NO. 60565355	FIG. NO. F–11
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 9:19:03 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-11.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L
- RDX CONCENTRATIONS >10 µg/L

N

1000 500 0 1000

SCALE IN FEET

October 21, 2021 9:25:26 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-12.dwg

Bruce ENGINEERING

AECOM

MODEL-PREDICTED RDX TRANSPORT OVER 5 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/21	PROJECT NO. 60565355	FIG. NO. F-12
CHK'D. BY: KW	REVISION: 0		

EW3

EW4

EW5

EW6

EW7

INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L

LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

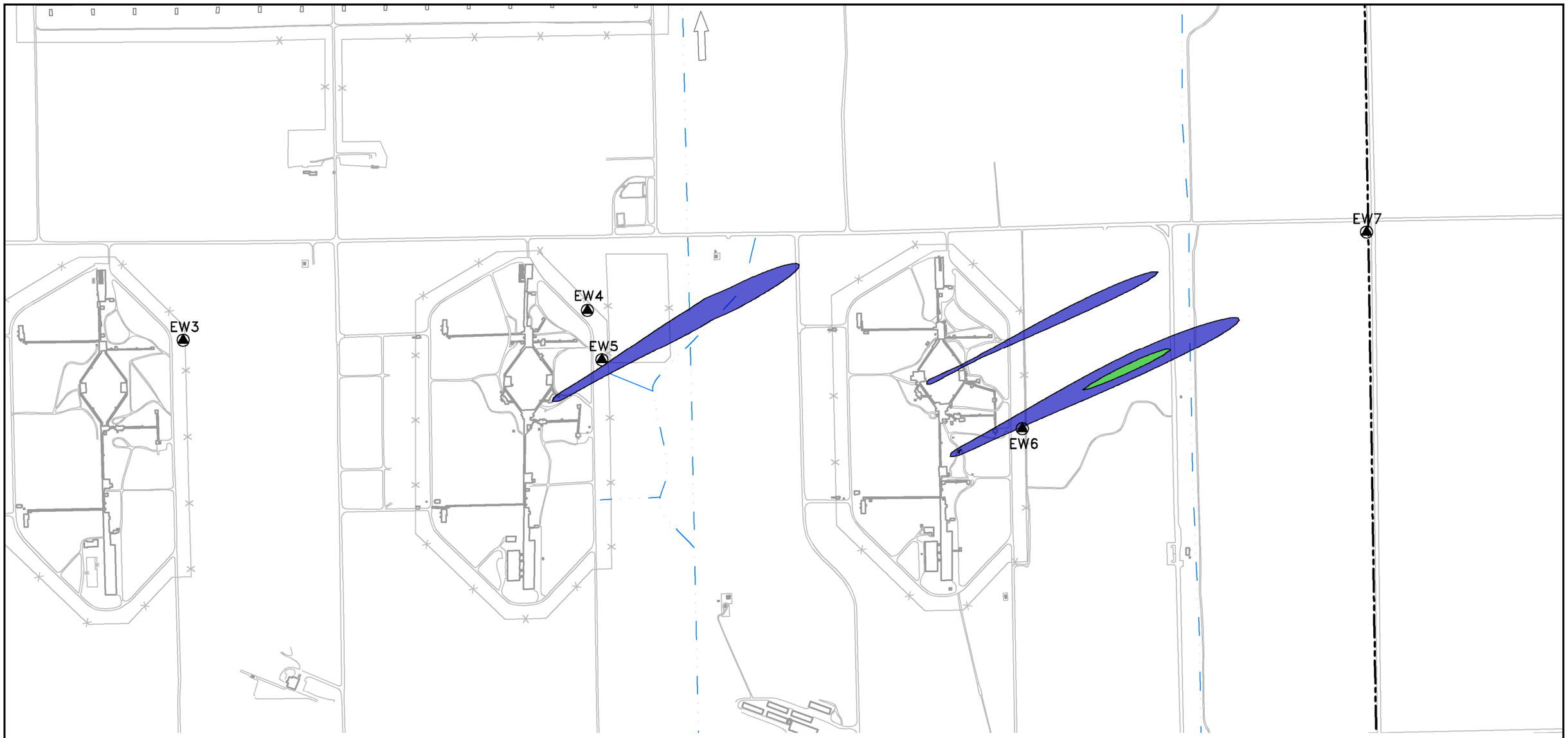
October 05, 2021 1:51:17 p.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-13.dwg

Bruce ENGINEERING

AECOM

MODEL-PREDICTED RDX TRANSPORT OVER 6 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/04/21	PROJECT NO. 60565355	FIG. NO. F-13
CHK'D. BY: KW	REVISION: 0		



INPUT CONCENTRATIONS

- RDX CONCENTRATIONS >2 µg/L
- RDX CONCENTRATIONS >5 µg/L

LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

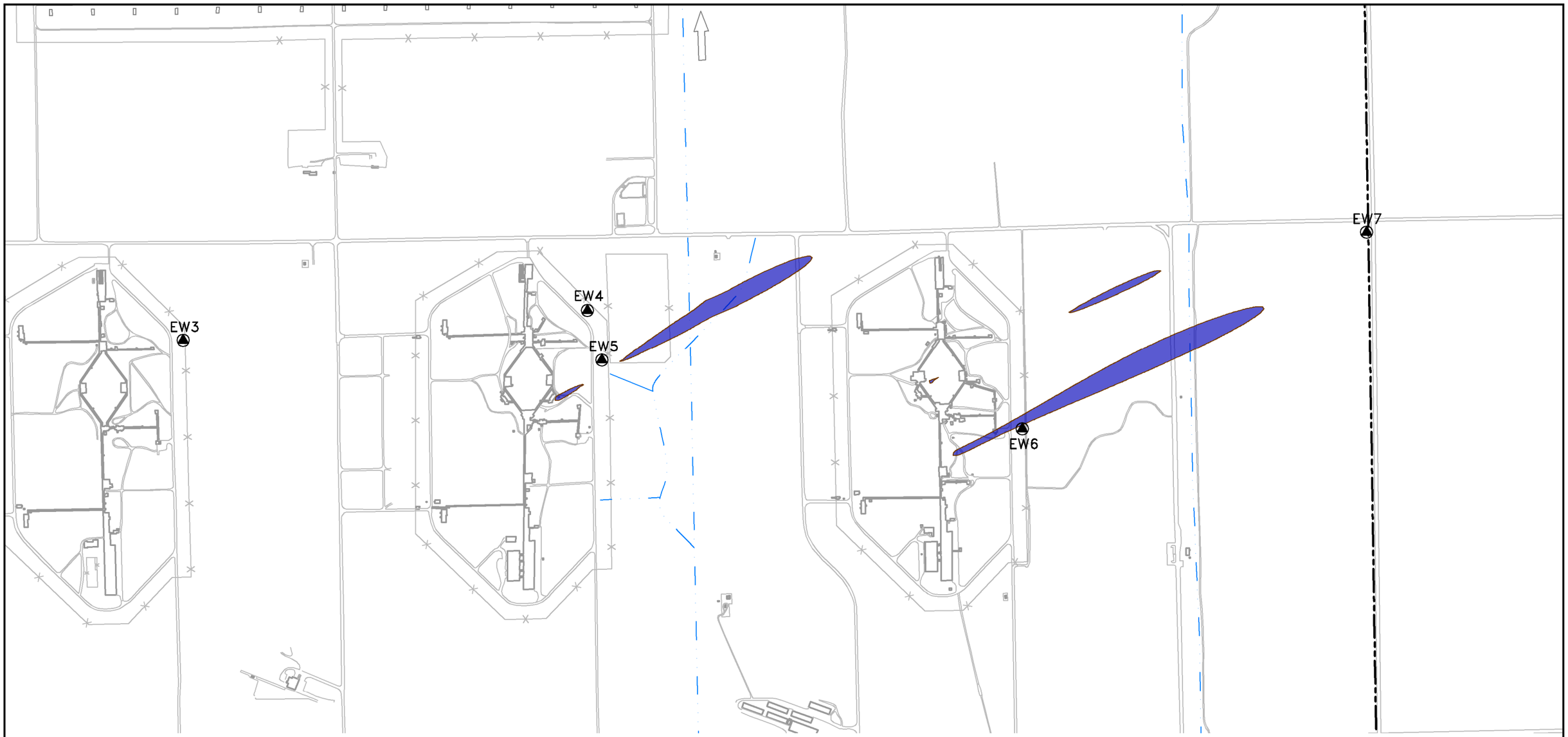
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 7 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-14
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:05:14 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-14.dwg



INPUT CONCENTRATIONS

RDX CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

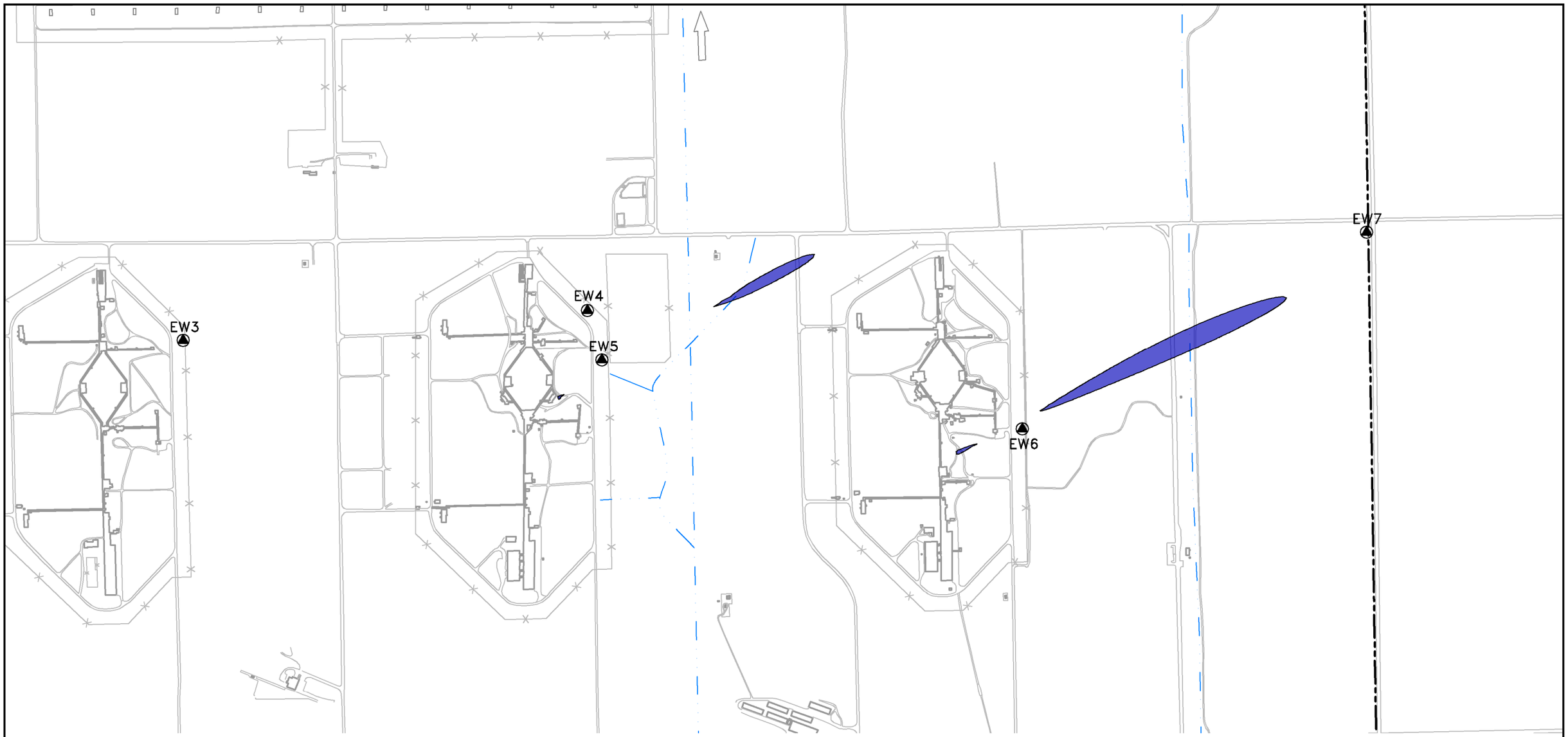
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 8 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/27/20	PROJECT NO. 60565355	FIG. NO. F-15
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:07:54 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-15.dwg



INPUT CONCENTRATIONS

RDX CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

MODEL–PREDICTED RDX TRANSPORT OVER 9 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-16
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:10:23 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-16.dwg

EW3

EW4

EW5

EW6

EW7

INPUT CONCENTRATIONS

RDX CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

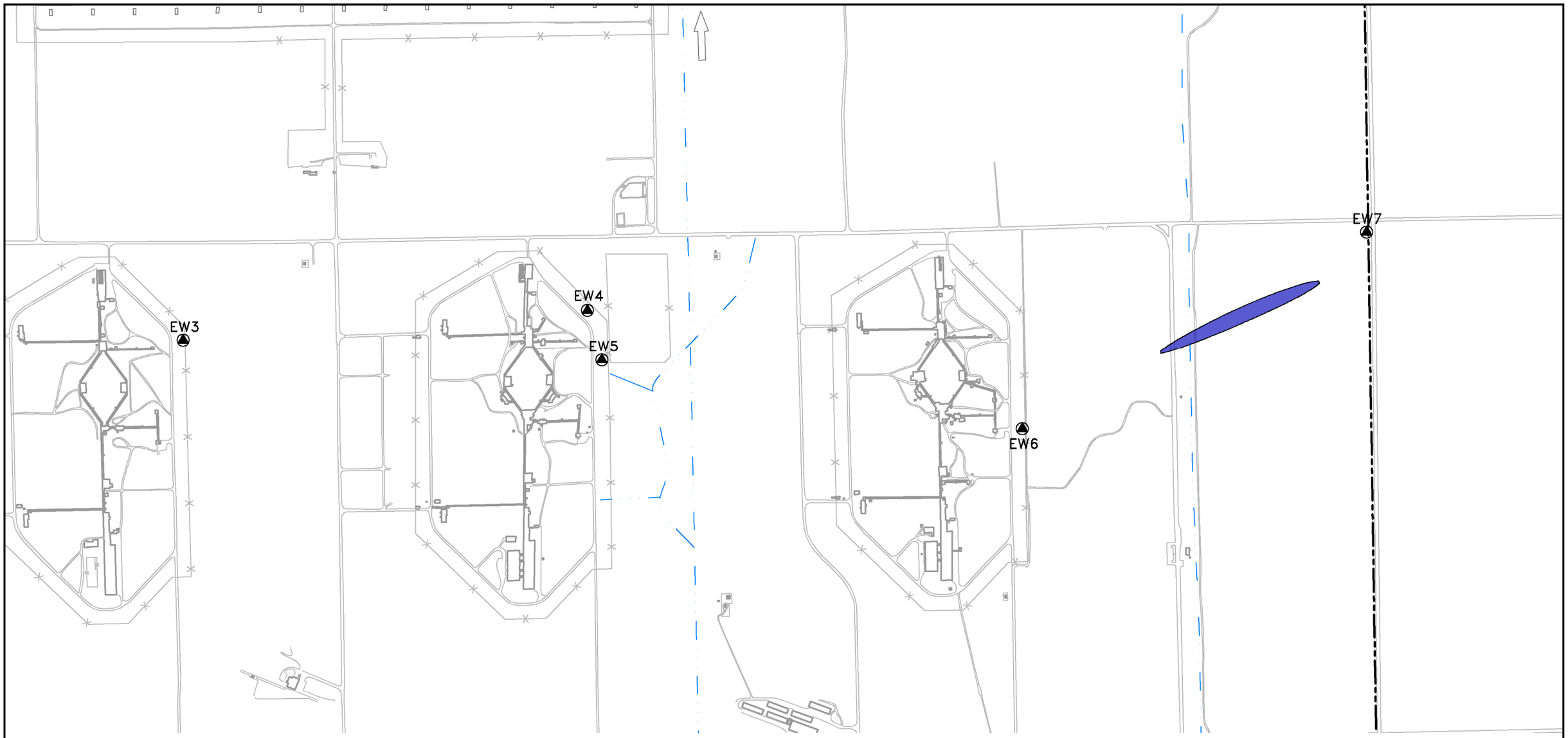
October 21, 2021 10:13:06 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-17.dwg

Bruce ENGINEERING

AECOM

MODEL-PREDICTED RDX TRANSPORT OVER 10 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-17
CHK'D. BY: KW	REVISION: 0		



INPUT CONCENTRATIONS

RDX CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

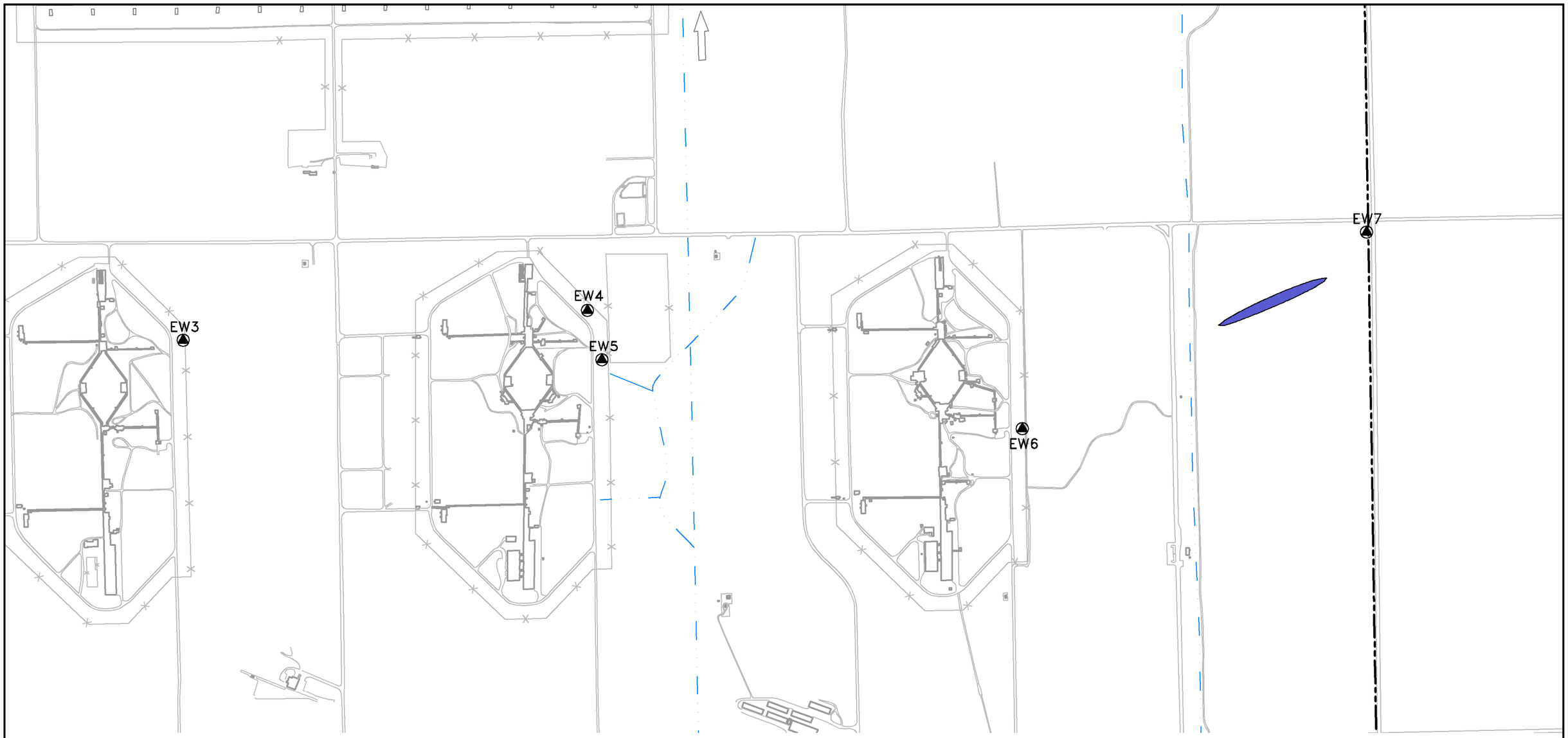
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 11 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-18
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:16:01 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-18.dwg



INPUT CONCENTRATIONS

RDX CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

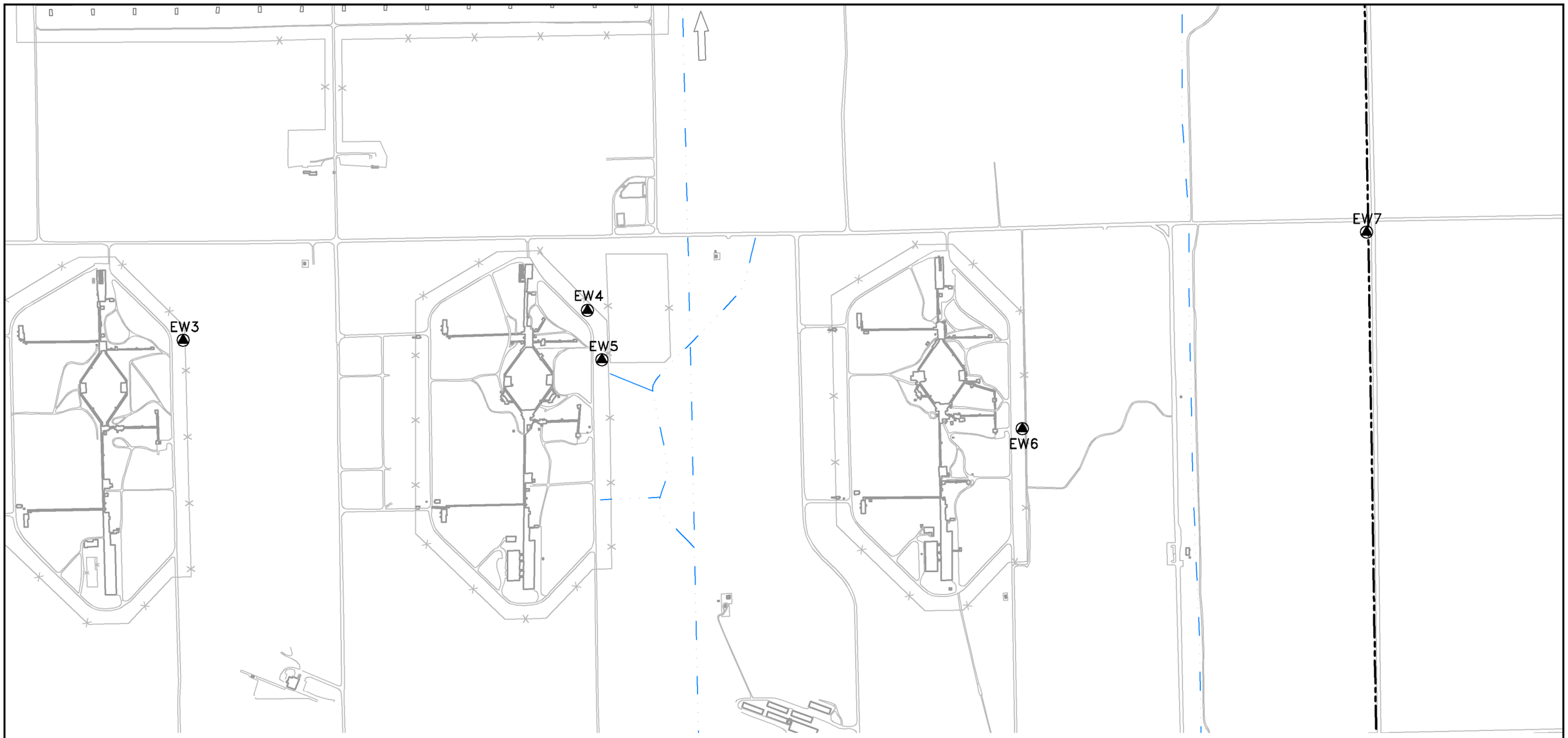
Bruce ENGINEERING

AECOM

MODEL–PREDICTED RDX TRANSPORT OVER 12 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-19
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:18:43 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-19.dwg



INPUT CONCENTRATIONS

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

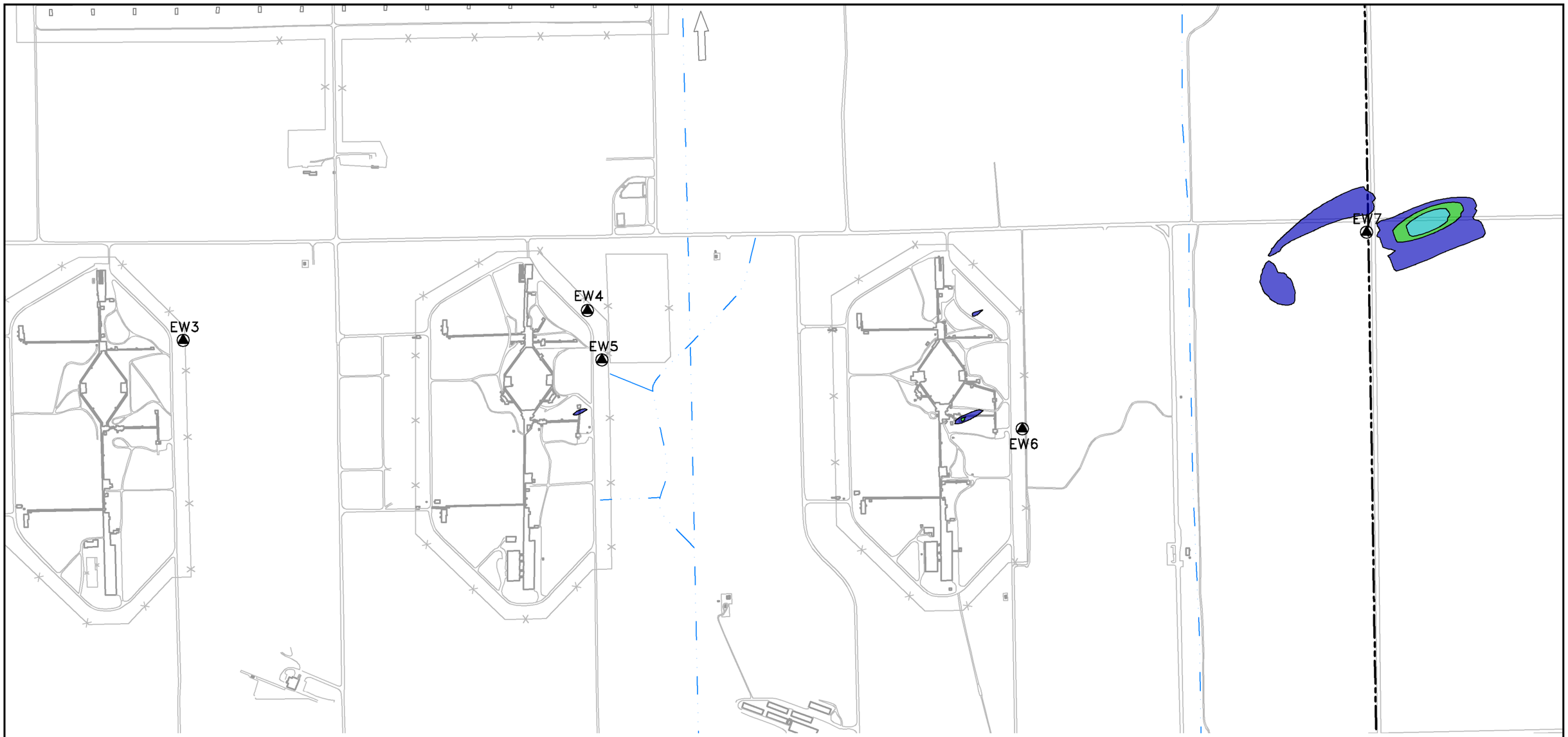
Bruce ENGINEERING

AECOM

MODEL-PREDICTED RDX TRANSPORT OVER 13 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-20
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:19:52 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-20.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- TNT CONCENTRATIONS >2 µg/L
- TNT CONCENTRATIONS >5 µg/L
- TNT CONCENTRATIONS >10 µg/L

N

1000 500 0 1000

SCALE IN FEET

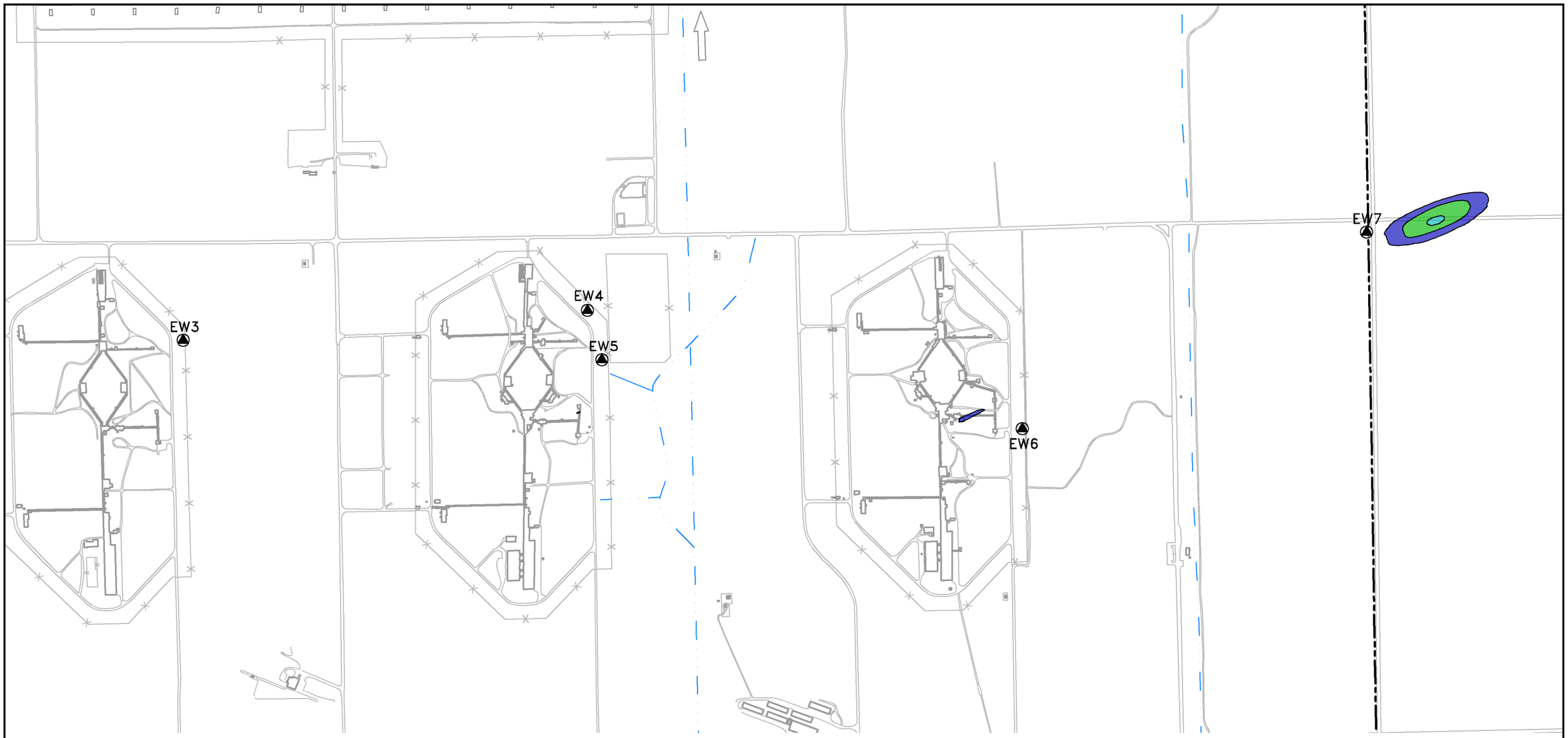
Brice ENGINEERING

AECOM

MODEL–PREDICTED TNT TRANSPORT OVER 1 YEAR
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-21
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:26:54 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-21.dwg



LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

INPUT CONCENTRATIONS

- TNT CONCENTRATIONS >2 µg/L
- TNT CONCENTRATIONS >5 µg/L
- TNT CONCENTRATIONS >10 µg/L

N

1000 500 0 1000

SCALE IN FEET

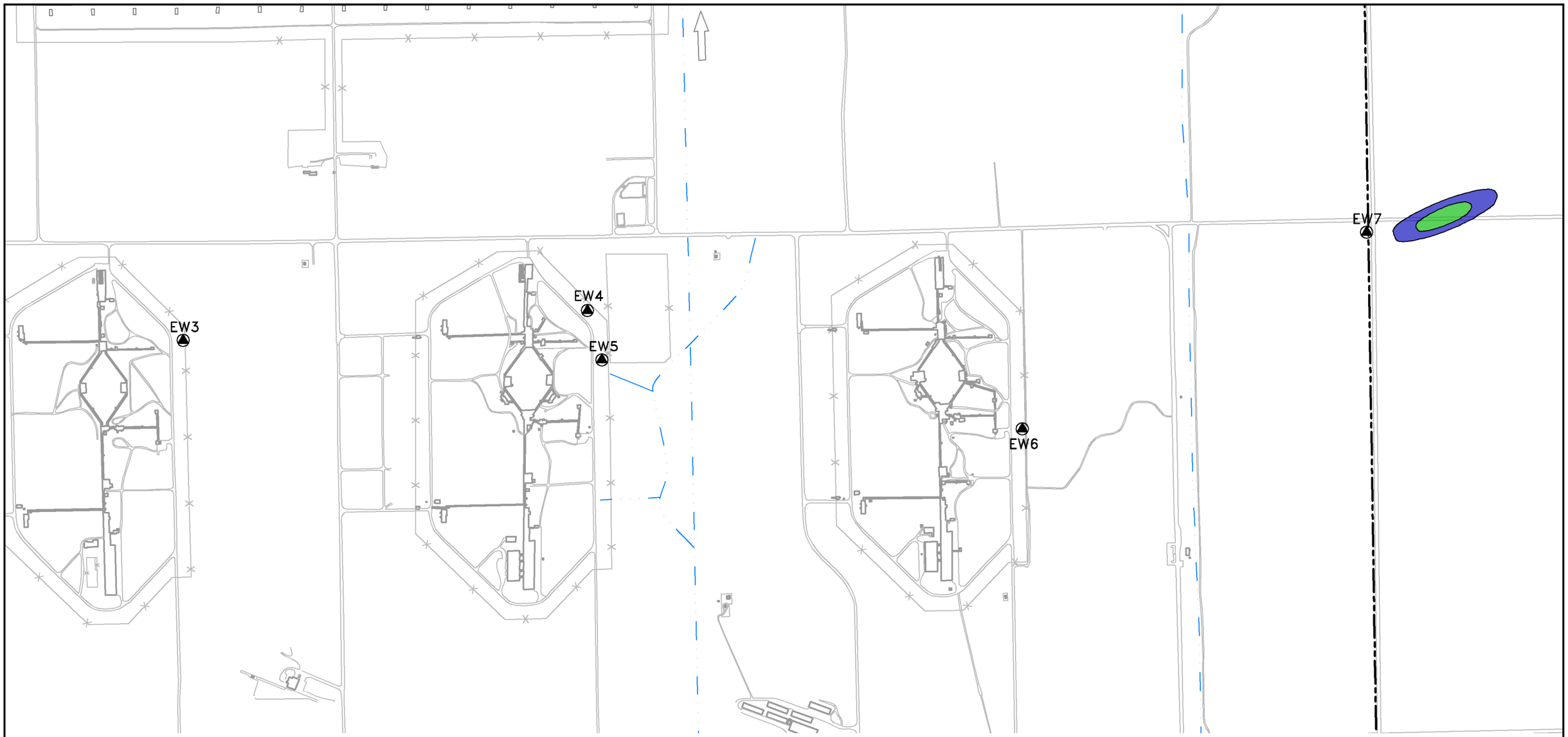
Brice ENGINEERING

AECOM

MODEL–PREDICTED TNT TRANSPORT OVER 2 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-22
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:37:53 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-22.dwg



INPUT CONCENTRATIONS

- TNT CONCENTRATIONS >2 µg/L
- TNT CONCENTRATIONS >5 µg/L

LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

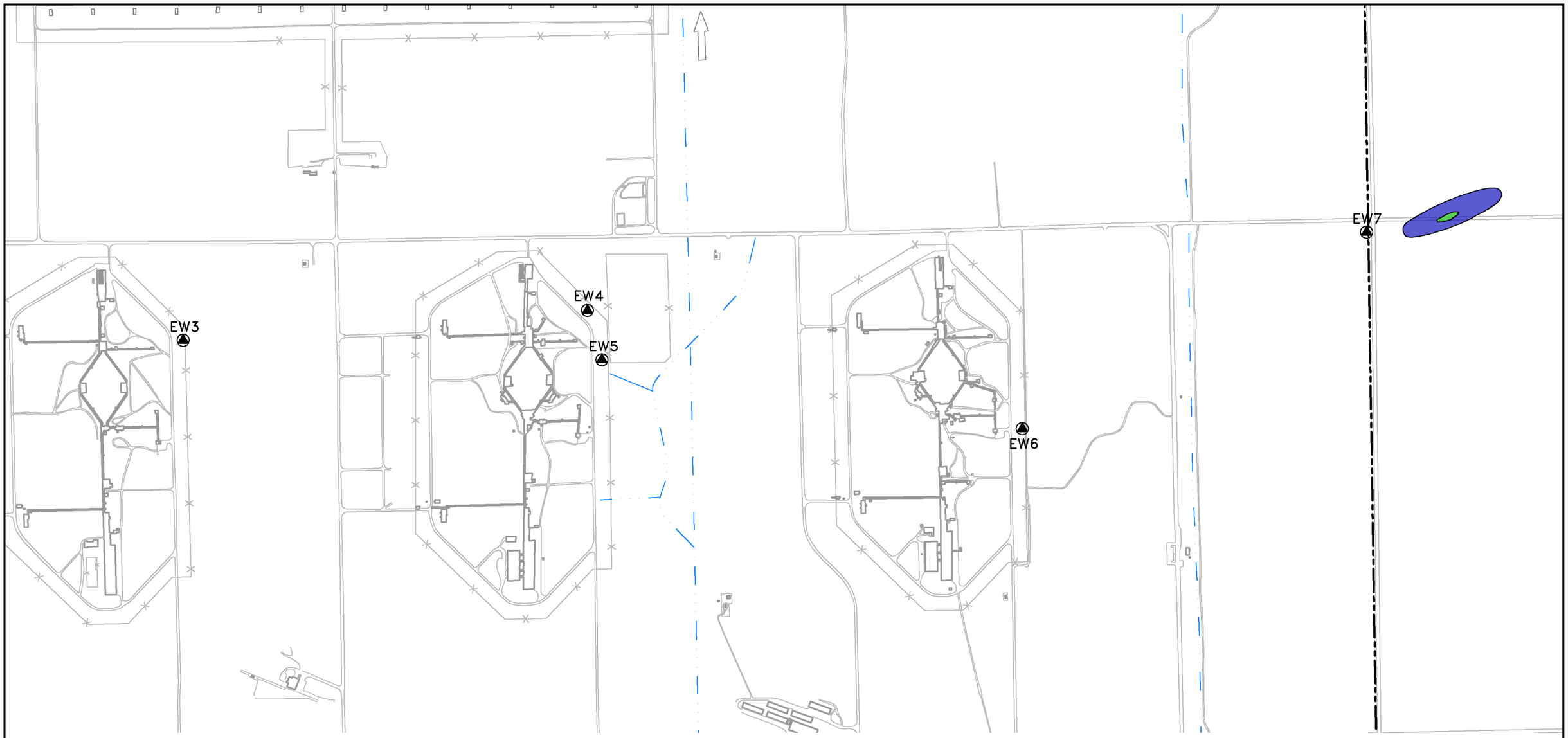
Bruce ENGINEERING

AECOM

MODEL–PREDICTED TNT TRANSPORT OVER 3 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-23
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:40:32 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-23.dwg



INPUT CONCENTRATIONS

- TNT CONCENTRATIONS >2 µg/L
- TNT CONCENTRATIONS >5 µg/L

LEGEND

- FACILITY BOUNDARY
- DRAINAGE DITCH FLOW DIRECTION
- SURFACE DRAINAGE
- EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

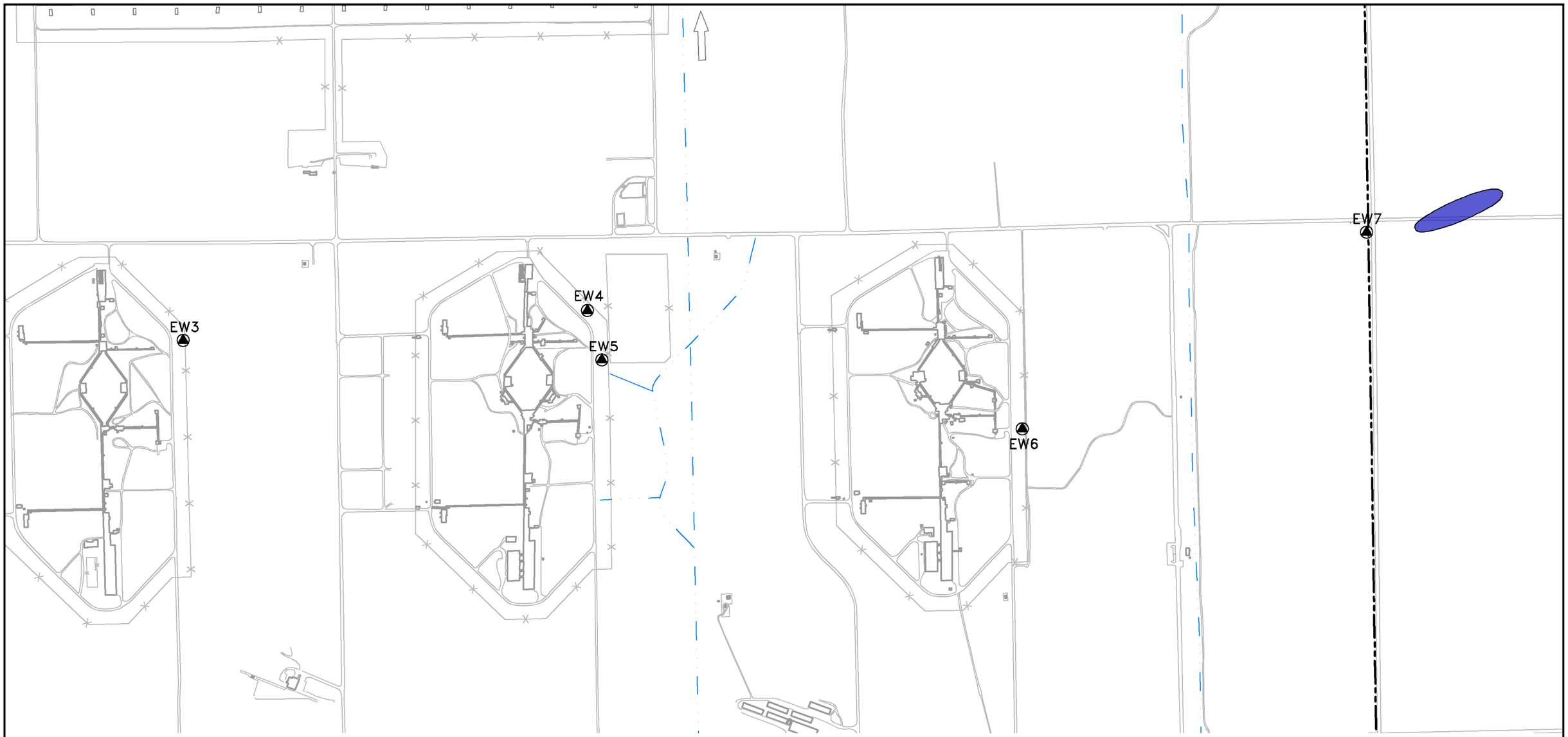
Bruce ENGINEERING

AECOM

MODEL–PREDICTED TNT TRANSPORT OVER 4 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-24
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:44:12 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-24.dwg



INPUT CONCENTRATIONS

TNT CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

Bruce ENGINEERING

AECOM

MODEL–PREDICTED TNT TRANSPORT OVER 5 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-25
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:46:57 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-25.dwg

EW3

EW4

EW5

EW6

EW7

INPUT CONCENTRATIONS

TNT CONCENTRATIONS >2 µg/L

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

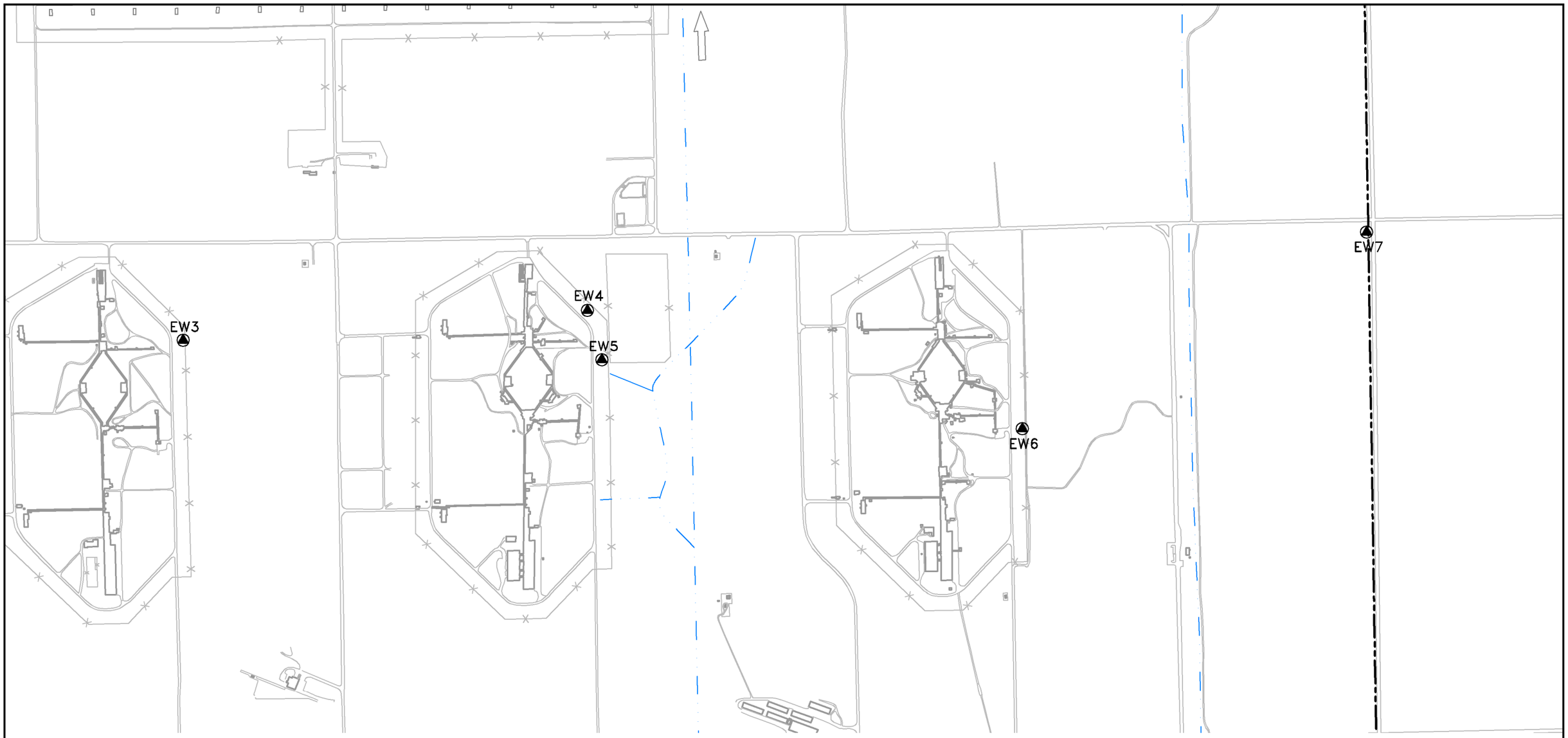
October 21, 2021 10:49:10 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-26.dwg

Bruce ENGINEERING

AECOM

MODEL-PREDICTED TNT TRANSPORT OVER 6 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-26
CHK'D. BY: KW	REVISION: 0		



INPUT CONCENTRATIONS

LEGEND

FACILITY BOUNDARY

DRAINAGE DITCH FLOW DIRECTION

SURFACE DRAINAGE

EW1 GROUNDWATER EXTRACTION WELL

N

1000 500 0 1000

SCALE IN FEET

Bruce ENGINEERING

AECOM

MODEL–PREDICTED TNT TRANSPORT OVER 7 YEARS
CORNHUSKER ARMY AMMUNITION PLANT

DRN. BY: DPG	DATE: 10/05/21	PROJECT NO. 60565355	FIG. NO. F-27
CHK'D. BY: KW	REVISION: 0		

October 21, 2021 10:49:56 a.m.
Drawing: O:\DCS\Projects\ENV\60565355_CHAAP_2018\900_CAD_GIS\910_CAD\2021\F-27.dwg

Included electronically only on enclosed CD.

MAROS Mann-Kendall Statistics Summary

Project: CHAAP 2021 LTM
User Name: Dean Converse
Location: Grand Island
State: Nebraska

Time Period: 1/6/1982 to 5/26/2021
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
2,4,6-TRINITROTOLUENE								
EW7	T	20	20	0.96	-187	100.0%	No	D
G0024	T	49	41	3.38	-368	100.0%	No	D
G0077	T	24	24	2.16	-263	100.0%	No	D
G0091	T	11	8	0.77	-53	100.0%	No	D
NW020	T	34	34	1.10	-438	100.0%	No	D
NW021	T	34	18	1.99	-411	100.0%	No	D
PZ017R	S	20	20	0.68	-161	100.0%	No	D
PZ018	T	21	20	0.93	-193	100.0%	No	D
PZ020	T	21	21	1.36	-170	100.0%	No	D
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZIN								
EW7	T	20	20	1.14	-177	100.0%	No	D
G0024	T	49	41	1.82	-645	100.0%	No	D
G0077	T	24	24	1.43	-241	100.0%	No	D
G0091	T	11	11	0.61	-28	98.4%	No	D
NW020	T	34	33	1.15	-474	100.0%	No	D
NW021	T	34	32	1.34	-401	100.0%	No	D
PZ017R	S	20	20	1.15	-166	100.0%	No	D
PZ018	T	21	20	1.08	-179	100.0%	No	D
PZ020	T	21	19	1.09	-141	100.0%	No	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Mann-Kendall Statistics Summary

Project: CHAAP 2021 LTM
User Name: Dean Converse
Location: Grand Island
State: Nebraska

Time Period: 1/6/1982 to 5/26/2021
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Average
ND Values: 1/2 Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
2,4,6-TRINITROTOLUENE								
G0075	T	24	10	1.81	-202	100.0%	No	D
G0079	T	10	0	0.36	-24	98.2%	Yes	ND
G0080	T	13	0	0.31	-33	97.5%	Yes	ND
G0081	T	13	10	1.25	-72	100.0%	No	D
G0082	T	13	9	0.86	-44	99.7%	No	D
G0086	T	12	11	0.58	-34	99.0%	No	D
G0087	T	12	0	0.32	-30	97.8%	Yes	ND
G0089	S	12	12	0.73	-60	100.0%	No	D
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZIN								
G0075	T	24	20	1.08	-204	100.0%	No	D
G0079	T	10	3	2.56	-27	99.2%	No	D
G0080	T	13	10	1.03	-71	100.0%	No	D
G0081	T	13	11	0.95	-67	100.0%	No	D
G0082	T	13	13	0.96	-47	99.9%	No	D
G0086	T	12	12	1.13	-52	100.0%	No	D
G0087	T	12	6	1.50	16	84.5%	No	NT
G0089	S	12	11	0.77	-36	99.3%	No	D

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	7/31/2019	5.7	ug/L	0.16	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/25/2018	6.4	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/26/2017	7.5	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	7/27/2016	9.0	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	7/29/2015	9.4	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	7/30/2014	12	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/24/2013	13.8	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/25/2012	15.7	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/27/2011	20	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/28/2010	23	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/29/2009	34	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/30/2008	31	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/25/2007	41	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/26/2006	45	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/27/2005	59	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/28/2004	66	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/30/2003	79	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/24/2002	79	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/4/2001	130	ug/L	0.17	
EW7	2,067,242	403,708	2,4,6-TRINITROTOLUENE	4/5/2000	137	ug/L	0.17	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/31/2019	0.45	ug/L	0.16	TR
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/25/2018	0.52	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/26/2017	0.33	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/27/2016	0.83	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/29/2015	0.92	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/30/2014	1.1	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/24/2013	1.7	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/25/2012	1.4	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/27/2011	2.6	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/28/2010	4.1	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/29/2009	7.0	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/30/2008	9.3	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/25/2007	10	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/26/2006	13	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/27/2005	21	ug/L	0.11	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/28/2004	21	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/30/2003	30	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/24/2002	36	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/4/2001	39	ug/L	0.11	
EW7	2,067,242	403,708	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/5/2000	23.4	ug/L	0.11	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	5/26/2021	0.44	ug/L	0.048	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	6/15/2020	0.63	ug/L	0.048	TR
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	6/10/2019		ug/L	0.16	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/20/2018	1.10	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	4/1/2017	2.00	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	8/16/2016		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	8/12/2015	0.98	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	8/4/2014	0.96	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/13/2013	2.20	ug/L	0.17	TR
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/12/2012	2.90	ug/L	0.17	TR
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/14/2011	3.00	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/16/2010	0.59	ug/L	0.17	TR
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/13/2009	9.60	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/12/2008	16.00	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/12/2007	20.00	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/14/2006		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/15/2005	0.93	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/16/2004	1.20	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/18/2003	2.40	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/20/2002	7.6	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/22/2001	6.9	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/23/2000	8	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	4/1/1999	10	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	6/30/1998	14.4	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	10/4/1997	23.4	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	12/15/1996	18	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	7/15/1994	11.0	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	6/15/1994	7.23	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	8/26/1992	2.69	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	5/29/1991	3.27	ug/L	0.17	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	10/16/1990		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	4/24/1990	4.69	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	5/15/1989	10.3	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	11/8/1988	9.82	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	7/26/1988		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	1/25/1988	27.0	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	4/15/1987		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	9/24/1986	13.5	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	3/12/1986	19.6	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	12/11/1985	14.0	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	9/11/1985	5.01	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	6/19/1985	15.0	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	12/4/1984	13.1	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	9/19/1984		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	6/15/1984		ug/L	0.17	ND
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	2/10/1984	2.10	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	11/2/1983	11.7	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	1/15/1983	16.0	ug/L	0.17	
G0024	2,067,195	403,887	2,4,6-TRINITROTOLUENE	1/6/1982	323	ug/L	0.17	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/26/2021		ug/L	0.055	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020	0.59	ug/L	0.055	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/10/2019		ug/L	0.16	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2018	0.53	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/2017	0.87	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/16/2016		ug/L	0.11	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/12/2015	0.40	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/14/2014	1.2	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	1.4	ug/L	0.11	TR
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	0.93	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2011	1.4	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2010		ug/L	0.11	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2009	3.1	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2008	4.4	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2007	6.5	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006		ug/L	0.11	ND

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2005	4	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2004	6.4	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/18/2003	7.8	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2002	5.4	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2001	1.2	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/23/2000	9.3	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/1999	16	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/30/1998	13.2	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	10/4/1997	14.2	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	12/15/1996	21.1	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/15/1994	27.0	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/1994	32.0	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/26/1992	20.3	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/29/1991	0.985	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	10/16/1990		ug/L	0.11	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/24/1990	11.9	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/15/1989	37.8	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	11/8/1988	18	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/26/1988	1.36	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	1/25/1988	34.7	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/15/1987	0.89	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	9/24/1986	16.9	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/1986	50.0	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	12/11/1985	48.6	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	9/11/1985	14.1	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/19/1985	41.2	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	12/4/1984		ug/L	0.11	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	9/19/1984	80.1	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/1984	54.8	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	2/10/1984		ug/L	0.11	ND
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	11/2/1983	171	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	1/15/1983	180	ug/L	0.11	
G0024	2,067,195	403,887	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	1/6/1982	150	ug/L	0.11	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	5/26/2021	4.3	ug/L	0.046	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	6/15/2020	3.3	ug/L	0.047	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	6/10/2019	2.2	ug/L	0.15	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/20/2018	5.3	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	4/1/2017	5.5	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	8/9/2016	5.3	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	8/12/2015	6	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	8/14/2014	6.1	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/13/2013	7.10	ug/L	0.17	TR
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/12/2012	7.30	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/15/2011	9.60	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/16/2010	13.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/13/2009	15.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/12/2008	18.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/12/2007	21.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/14/2006	23.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/15/2005	27.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/15/2004	45.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/18/2003	55.00	ug/L	0.17	TR
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/20/2002	60.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/23/2001	130.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/23/2000	540.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	3/23/1999	800.00	ug/L	0.17	
G0077	2,067,218	403,894	2,4,6-TRINITROTOLUENE	6/30/1998	418.00	ug/L	0.17	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/26/2021	1.20	ug/L	0.053	TR
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020	0.46	ug/L	0.054	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/10/2019	0.53	ug/L	0.15	TR
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2018	1.30	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/2017	1.50	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/9/2016	1.30	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/12/2015	1.40	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/14/2014	2.30	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	2.40	ug/L	0.11	TR
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	3.00	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011	3.50	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2010	2.60	ug/L	0.11	TR
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2009	4.80	ug/L	0.11	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2008	4.70	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2007	5.70	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006	7.50	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2005	15.00	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2004	13.00	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/18/2003	9.90	ug/L	0.11	TR
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2002	12.00	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/23/2001	14.00	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/23/2000	40.00	ug/L	0.11	TR
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/23/1999	55.00	ug/L	0.11	
G0077	2,067,218	403,894	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/30/1998	13.90	ug/L	0.11	
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	5/24/2021		ug/L	0.044	ND
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	6/16/2020		ug/L	0.089	ND
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	6/11/2019		ug/L	0.16	ND
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	3/15/2018	0.12	ug/L	0.17	TR
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	4/1/2017	0.17	ug/L	0.17	
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	8/16/2016	0.13	ug/L	0.17	TR
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	8/12/2015	0.19	ug/L	0.17	TR
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	8/13/2014	0.23	ug/L	0.17	TR
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	3/13/2013	0.38	ug/L	0.17	TR
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	3/7/2012	0.4	ug/L	0.17	TR
G0091	2,067,214	405,348	2,4,6-TRINITROTOLUENE	3/9/2011	0.51	ug/L	0.17	TR
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/24/2021	0.31	ug/L	0.05	
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/16/2020	0.59	ug/L	0.055	
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/11/2019	1.2	ug/L	0.15	TR
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2018	1.1	ug/L	0.11	TR
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/2017	1.1	ug/L	0.11	
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/16/2016	0.82	ug/L	0.11	
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/12/2015	0.98	ug/L	0.11	
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/13/2014	0.81	ug/L	0.11	
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	1.5	ug/L	0.11	TR
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/7/2012	2.5	ug/L	0.11	TR
G0091	2,067,214	405,348	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/9/2011	2.8	ug/L	0.11	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	5/25/2021	0.93	ug/L	0.046	TR
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	6/15/2020	0.59	ug/L	0.09	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	6/10/2019	0.33	ug/L	0.16	TR
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/19/2018	0.34	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/28/2017	0.33	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	8/5/2016	0.36	ug/L	0.17	TR
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	8/11/2015	0.29	ug/L	0.17	TR
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	8/13/2014	0.41	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/20/2013	0.70	ug/L	0.17	TR
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/6/2012	0.88	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/8/2011	1.10	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/9/2010	1.70	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/10/2009	3.10	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/10/2008	4.10	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/19/2007	3.30	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/14/2006	5.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/14/2005	5.80	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/15/2004	6.80	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/17/2003	11.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/19/2002	13.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/21/2001	19.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/14/2000	25.00	ug/L	0.17	TR
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/25/1999	34.90	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	6/16/1998	22.30	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	10/2/1997	22.80	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	12/9/1996	30.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	7/17/1994	23.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	6/14/1994	25.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	8/26/1992	25.50	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	5/31/1991	10.10	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	9/10/1985	53.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	4/16/1985	44.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	3/15/1985	32.00	ug/L	0.17	
NW020	2,067,328	404,441	2,4,6-TRINITROTOLUENE	11/29/1984	13.00	ug/L	0.17	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/25/2021	1.00	ug/L	0.053	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020	1.50	ug/L	0.05	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/10/2019	0.17	ug/L	0.15	TR

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2018	0.33	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/28/2017	0.17	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/5/2016		ug/L	0.11	ND
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/11/2015	0.31	ug/L	0.11	TR
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/13/2014	0.29	ug/L	0.11	TR
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2013	1.60	ug/L	0.11	TR
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/6/2012	2.20	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/8/2011	2.40	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/9/2010	1.70	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/10/2009	3.30	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/10/2008	3.20	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2007	2.90	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006	4.30	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2005	6.20	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2004	7.10	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2003	7.10	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2002	9.50	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/21/2001	8.30	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2000	12.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/25/1999	12.40	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/16/1998	10.70	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	10/2/1997	10.10	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	12/9/1996	12.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/17/1994	26.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/14/1994	24.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/26/1992	25.40	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/31/1991	28.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	9/10/1985	41.70	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/16/1985	43.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/1985	30.00	ug/L	0.11	
NW020	2,067,328	404,441	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	11/29/1984	17.00	ug/L	0.11	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	5/25/2021		ug/L	0.047	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	6/15/2020		ug/L	0.05	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	6/10/2019		ug/L	0.15	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/19/2018	0.08	ug/L	0.17	TR

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/28/2017		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	8/5/2016		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	8/11/2015		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	8/14/2014		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/20/2013		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/6/2012		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/8/2011		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/9/2010	0.19	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/10/2009		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/10/2008		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/9/2007		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/14/2006		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/14/2005		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/15/2004		ug/L	0.17	ND
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/17/2003	0.11	ug/L	0.17	TR
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/19/2002	0.31	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/21/2001	2.8	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/14/2000	3.10	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/25/1999	4.78	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	6/16/1998	1.71	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	10/2/1997	3.21	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	12/9/1996	3.80	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	7/17/1994	3.09	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	6/14/1994	3.04	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	8/26/1992	3.82	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	6/2/1991	1.60	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	9/10/1985	27.40	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	4/16/1985	19.00	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	3/15/1985	10.00	ug/L	0.17	
NW021	2,067,301	404,393	2,4,6-TRINITROTOLUENE	11/29/1984	11.00	ug/L	0.17	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/25/2021	0.13	ug/L	0.053	TR
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020		ug/L	0.06	ND
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/10/2019		ug/L	0.15	ND
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2018	0.21	ug/L	0.11	TR
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/28/2017	0.24	ug/L	0.11	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/5/2016	0.35	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/11/2015	0.22	ug/L	0.11	TR
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/14/2014	0.50	ug/L	0.11	TR
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2013	0.95	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/6/2012	1.30	ug/L	0.11	TR
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/8/2011	1.50	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/9/2010	1.90	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/10/2009	2.60	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/10/2008	4.30	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/9/2007	4.30	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006	6.30	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2005	5.70	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2004	4.60	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2003	2.00	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2002	3.7	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/21/2001	7.1	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2000	5.00	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/25/1999	6.09	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/16/1998	3.44	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	10/2/1997	4.02	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	12/9/1996	4.60	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	7/17/1994	5.66	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/14/1994	4.34	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/26/1992	5.43	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/2/1991	4.01	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	9/10/1985	26.00	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/16/1985	30.00	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/1985	19.00	ug/L	0.11	
NW021	2,067,301	404,393	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	11/29/1984	21.00	ug/L	0.11	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	5/26/2021	10.00	ug/L	0.047	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	6/16/2020	11.00	ug/L	0.048	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	6/11/2019	19.00	ug/L	0.16	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/20/2018	17	ug/L	0.17	TR
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	4/1/2017	25	ug/L	0.17	TR
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	8/9/2016	22	ug/L	0.17	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	8/13/2015	24	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	8/15/2014	29	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/13/2013	30.90	ug/L	0.17	TR
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/12/2012	23.50	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/14/2011	33.80	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/16/2010	41.00	ug/L	0.17	TR
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/12/2008	70.00	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/12/2007	79.00	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/14/2006	91.00	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/15/2005	84.00	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/16/2004	100.00	ug/L	0.17	
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/19/2003	100.00	ug/L	0.17	TR
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/19/2002	78.00	ug/L	0.17	TR
PZ017R	2,067,255	403,469	2,4,6-TRINITROTOLUENE	3/22/2001	100.00	ug/L	0.17	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/26/2021	2.10	ug/L	0.054	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/16/2020	1.40	ug/L	0.055	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/11/2019	1.00	ug/L	0.16	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2018	1.80	ug/L	0.11	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/2017	3.00	ug/L	0.11	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/9/2016	3.40	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/13/2015	6.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/15/2014	6.80	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	9.30	ug/L	0.11	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	8.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2011	10.20	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2010	10.00	ug/L	0.11	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2008	50.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2007	59.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006	71.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2005	85.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2004	110.00	ug/L	0.11	
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2003	120.00	ug/L	0.11	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2002	70.00	ug/L	0.11	TR
PZ017R	2,067,255	403,469	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2001	93.00	ug/L	0.11	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	5/25/2021	4.60	ug/L	0.049	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	6/16/2020		ug/L	0.049	ND
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	6/11/2019	6.30	ug/L	0.16	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/20/2018	6.80	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/30/2017	10.00	ug/L	0.17	TR
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	8/9/2016	0.47	ug/L	0.17	TR
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	8/12/2015	14.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	8/15/2014	11.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/13/2013	14.10	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/12/2012	16.80	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/14/2011	19.30	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/16/2010	25.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/17/2009	32.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/11/2008	32.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/12/2007	40.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/14/2006	52.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/15/2005	58.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/15/2004	74.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/19/2003	85.00	ug/L	0.17	TR
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/19/2002	66.00	ug/L	0.17	
PZ018	2,067,257	403,293	2,4,6-TRINITROTOLUENE	3/22/2001	100.00	ug/L	0.17	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/25/2021		ug/L	0.056	ND
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/16/2020	1.00	ug/L	0.056	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/11/2019	1.10	ug/L	0.16	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2018	1.60	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/30/2017	2.60	ug/L	0.11	TR
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/9/2016	0.10	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/12/2015	2.50	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/15/2014	4.80	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	4.20	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	5.50	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2011	6.20	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2010	16.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2009	23.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/11/2008	33.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2007	46.00	ug/L	0.11	

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006	50.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2005	69.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2004	68.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2003	60.00	ug/L	0.11	TR
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2002	54.00	ug/L	0.11	
PZ018	2,067,257	403,293	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2001	54.00	ug/L	0.11	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	5/26/2021	3.80	ug/L	0.047	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	6/15/2020	2.20	ug/L	0.047	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	6/10/2019	3.00	ug/L	0.16	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/20/2018	5.90	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/31/2017	5.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	8/17/2016	4.30	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	8/17/2015	3.90	ug/L	0.17	TR
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	8/8/2014	3.00	ug/L	0.17	TR
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/13/2013	4.40	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/12/2012	4.70	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/15/2011	5.90	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/16/2010	8.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/13/2009	8.60	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/13/2008	10.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/12/2007	13.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/14/2006	17.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/15/2005	16.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/16/2004	23.00	ug/L	0.17	
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/18/2003	22.00	ug/L	0.17	TR
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/20/2002	42.00	ug/L	0.17	TR
PZ020	2,067,224	404,088	2,4,6-TRINITROTOLUENE	3/22/2001	85.00	ug/L	0.17	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/26/2021	0.68	ug/L	0.053	TR
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020	0.58	ug/L	0.054	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/10/2019	0.37	ug/L	0.15	TR
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2018	0.62	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/31/2017	0.62	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/17/2016	0.52	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/17/2015	1.10	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/8/2014	1.10	ug/L	0.11	TR

TABLE G.2-1
CORNHUSKER ARMY AMMUNITION PLANT
MAROS EXTRACTION WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013		ug/L	0.11	ND
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	2.50	ug/L	0.11	TR
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011	2.40	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2010	2.30	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2009		ug/L	0.11	ND
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2008	4.10	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2007	4.80	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2006	4.50	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2005	4.60	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2004	7.70	ug/L	0.11	
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/18/2003	8.80	ug/L	0.11	TR
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2002	8.90	ug/L	0.11	TR
PZ020	2,067,224	404,088	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2001	13.00	ug/L	0.11	

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	5/20/2021		ug/L	0.043	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	6/1/2020		ug/L	0.048	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	6/9/2019		ug/L	0.16	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/21/2018		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	4/1/2017		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	8/10/2016		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	8/13/2015		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	8/19/2014		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/14/2013		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/12/2012		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/15/2011		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/15/2010		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/16/2009		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/12/2008		ug/L	0.17	ND
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/12/2007	1.30	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/15/2006	1.40	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/15/2005	1.40	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/13/2004	1.40	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/18/2003	1.20	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/21/2002	2.00	ug/L	0.17	TR
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/22/2001	8.50	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	3/23/2000	12.00	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	4/1/1999	11.00	ug/L	0.17	
G0075	2,065,479	403,559	2,4,6-TRINITROTOLUENE	6/29/1998	6.33	ug/L	0.17	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/20/2021		ug/L	0.049	ND
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/1/2020		ug/L	0.054	ND
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019		ug/L	0.16	ND
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/21/2018	0.25	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/2017	0.16	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/10/2016	0.20	ug/L	0.11	TR
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/13/2015	0.06	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/19/2014	0.84	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2013	0.70	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	0.57	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011	2.30	ug/L	0.11	

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2010	1.80	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2009		ug/L	0.11	ND
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2008	3.10	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2007	11.00	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2006	7.90	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2005	9.00	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2004	9.20	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/18/2003	8.30	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/21/2002	10.00	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2001	11.00	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/23/2000	14.00	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/1999	14.00	ug/L	0.11	
G0075	2,065,479	403,559	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/29/1998	8.06	ug/L	0.11	
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	5/20/2021		ug/L	0.042	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	6/1/2020		ug/L	0.048	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	6/9/2019		ug/L	0.16	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/12/2012		ug/L	0.17	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/15/2011		ug/L	0.17	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/15/2010		ug/L	0.17	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/16/2009		ug/L	0.17	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/21/2002		ug/L	0.17	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/22/2001		ug/L	0.17	ND
G0079	2,065,479	403,553	2,4,6-TRINITROTOLUENE	3/23/2000		ug/L	0.17	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/20/2021		ug/L	0.048	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/1/2020		ug/L	0.055	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019		ug/L	0.15	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012		ug/L	0.11	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011		ug/L	0.11	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2010		ug/L	0.11	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2009		ug/L	0.11	ND
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/21/2002	1.50	ug/L	0.11	
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2001	15.00	ug/L	0.11	
G0079	2,065,479	403,553	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/23/2000	1.40	ug/L	0.11	
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	5/20/2021		ug/L	0.046	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	6/11/2020		ug/L	0.047	ND

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	6/9/2019		ug/L	0.16	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/20/2018		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/30/2017		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	8/16/2016		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	8/5/2015		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	8/19/2014		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/13/2013		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/12/2012		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/15/2011		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/15/2010		ug/L	0.17	ND
G0080	2,065,443	404,329	2,4,6-TRINITROTOLUENE	3/17/2009		ug/L	0.17	ND
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/20/2021		ug/L	0.053	ND
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/11/2020		ug/L	0.054	ND
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019		ug/L	0.16	ND
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/20/2018	0.28	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/30/2017	0.23	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/16/2016	0.26	ug/L	0.11	TR
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/5/2015	0.29	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/19/2014	0.45	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	1.00	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	1.60	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011	1.90	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2010	1.60	ug/L	0.11	
G0080	2,065,443	404,329	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2009	2.20	ug/L	0.11	
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	5/20/2021		ug/L	0.043	ND
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	6/2/2020		ug/L	0.047	ND
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	6/9/2019	0.59	ug/L	0.16	TR
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/21/2018	1.00	ug/L	0.17	
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/30/2017	2.40	ug/L	0.17	TR
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	8/16/2016		ug/L	0.17	ND
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	8/17/2015	5.60	ug/L	0.17	
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	8/19/2014	9.90	ug/L	0.17	TR
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/14/2013	12.70	ug/L	0.17	TR
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/12/2012	16.90	ug/L	0.17	TR
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/15/2011	20.70	ug/L	0.17	

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/15/2010	36.00	ug/L	0.17	TR
G0081	2,065,490	402,722	2,4,6-TRINITROTOLUENE	3/17/2009	43.00	ug/L	0.17	
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/20/2021	0.30	ug/L	0.049	
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/2/2020		ug/L	0.054	ND
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019		ug/L	0.16	ND
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/21/2018	0.29	ug/L	0.11	TR
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/30/2017	0.42	ug/L	0.11	TR
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/16/2016	0.50	ug/L	0.11	TR
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/17/2015	0.83	ug/L	0.11	
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/19/2014	1.20	ug/L	0.11	TR
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2013	0.94	ug/L	0.11	TR
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	1.20	ug/L	0.11	
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011	1.40	ug/L	0.11	
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2010	1.30	ug/L	0.11	TR
G0081	2,065,490	402,722	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2009	3.30	ug/L	0.11	
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	5/20/2021	0.73	ug/L	0.043	
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	6/2/2020		ug/L	0.052	ND
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	6/9/2019		ug/L	0.16	ND
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/22/2018		ug/L	0.17	ND
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/31/2017	0.11	ug/L	0.17	TR
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	8/12/2016		ug/L	0.17	ND
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	8/17/2015	0.50	ug/L	0.17	TR
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	8/19/2014	0.47	ug/L	0.17	
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/14/2013	0.64	ug/L	0.17	TR
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/12/2012	1.10	ug/L	0.17	TR
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/15/2011	1.40	ug/L	0.17	
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/15/2010	1.10	ug/L	0.17	TR
G0082	2,065,493	402,207	2,4,6-TRINITROTOLUENE	3/17/2009	0.58	ug/L	0.17	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/20/2021	0.43	ug/L	0.049	TR
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/2/2020	0.68	ug/L	0.059	TR
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019	0.34	ug/L	0.15	TR
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2018	1.70	ug/L	0.11	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/31/2017	5.40	ug/L	0.11	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/12/2016	2.70	ug/L	0.11	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/17/2015	4.50	ug/L	0.11	TR

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/19/2014	4.50	ug/L	0.11	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2013	7.60	ug/L	0.11	TR
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/12/2012	3.30	ug/L	0.11	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2011	3.10	ug/L	0.11	
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/15/2010	6.00	ug/L	0.11	TR
G0082	2,065,493	402,207	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2009	16.00	ug/L	0.11	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	5/26/2021	4.90	ug/L	0.048	TR
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	6/16/2020	3.60	ug/L	0.047	TR
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	6/9/2019	2.50	ug/L	0.16	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	3/19/2018	2.70	ug/L	0.17	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	3/29/2017	2.70	ug/L	0.17	TR
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	8/11/2016		ug/L	0.17	ND
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	8/13/2015	3.90	ug/L	0.17	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	8/15/2014	4.20	ug/L	0.17	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	3/13/2013	4.20	ug/L	0.17	TR
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	3/13/2012	6.20	ug/L	0.17	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	3/16/2011	6.60	ug/L	0.17	
G0086	2,066,457	403,759	2,4,6-TRINITROTOLUENE	3/17/2010	10.00	ug/L	0.17	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/26/2021	0.84	ug/L	0.054	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/16/2020	0.21	ug/L	0.054	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019	0.18	ug/L	0.16	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2018	0.26	ug/L	0.11	
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/29/2017	0.41	ug/L	0.11	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/11/2016	0.66	ug/L	0.11	
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/13/2015	0.76	ug/L	0.11	
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/15/2014	1.20	ug/L	0.11	
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013	2.50	ug/L	0.11	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2012	4.00	ug/L	0.11	TR
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2011	4.60	ug/L	0.11	
G0086	2,066,457	403,759	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2010	6.30	ug/L	0.11	TR
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	5/25/2021		ug/L	0.045	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	6/15/2020		ug/L	0.048	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	6/9/2019		ug/L	0.16	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	3/19/2018		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	4/1/2017		ug/L	0.17	ND

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	8/9/2016		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	8/13/2015		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	8/19/2014		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	3/13/2013		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	3/13/2012		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	3/16/2011		ug/L	0.17	ND
G0087	2,065,944	403,749	2,4,6-TRINITROTOLUENE	3/17/2010		ug/L	0.17	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/25/2021	0.23	ug/L	0.052	
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020	0.15	ug/L	0.055	TR
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/9/2019		ug/L	0.16	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2018	0.07	ug/L	0.11	TR
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	4/1/2017	0.06	ug/L	0.11	TR
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/9/2016		ug/L	0.11	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/13/2015		ug/L	0.11	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/19/2014		ug/L	0.11	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2013		ug/L	0.11	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2012	0.83	ug/L	0.11	TR
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/16/2011		ug/L	0.11	ND
G0087	2,065,944	403,749	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/17/2010	1.10	ug/L	0.11	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	5/20/2021	2.30	ug/L	0.054	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	6/15/2020	1.70	ug/L	0.047	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	6/11/2019	3.50	ug/L	0.16	TR
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	3/22/2018	5.50	ug/L	0.17	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	3/31/2017	9.90	ug/L	0.17	TR
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	8/8/2016	8.60	ug/L	0.17	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	8/17/2015	12.00	ug/L	0.17	TR
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	8/19/2014	14.00	ug/L	0.17	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	3/14/2013	18.20	ug/L	0.17	TR
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	3/13/2012	17.90	ug/L	0.17	TR
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	3/14/2011	25.80	ug/L	0.17	
G0089	2,065,206	402,589	2,4,6-TRINITROTOLUENE	3/19/2010	30.00	ug/L	0.17	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	5/20/2021	0.23	ug/L	0.061	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/15/2020		ug/L	0.054	ND
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	6/11/2019	0.32	ug/L	0.16	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/22/2018	2.10	ug/L	0.11	

TABLE G.2-2
CORNHUSKER ARMY AMMUNITION PLANT
MAROS UPGRADIENT WELL DATA INPUTS

WellName	XCoord	YCoord	Constituent	SampleDate	Result	Units	DetLim	Flags
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/31/2017	2.70	ug/L	0.11	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/8/2016	1.40	ug/L	0.11	
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/17/2015	0.54	ug/L	0.11	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	8/19/2014	0.51	ug/L	0.11	
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2013	1.40	ug/L	0.11	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/13/2012	2.60	ug/L	0.11	TR
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/14/2011	3.00	ug/L	0.11	
G0089	2,065,206	402,589	HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE	3/19/2010	2.70	ug/L	0.11	