

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
NW022-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0109-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0094-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0099-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0083-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
NW020-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
NW021-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
NW023-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0022-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0024-20A	6/15/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0108-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)

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Sample Identification #	Date Collected	Date Received	Matrix	Analysis
G0118-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0098-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0114-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0097-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0113-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
PZ015-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
PZ016-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0110-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0112-20A	6/14/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0085-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0285-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)

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Sample Identification #	Date Collected	Date Received	Matrix	Analysis
G0084-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0067-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0023-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0119-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0048-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0066R-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0121-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)
G0049-20A	6/13/2020	6/16/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), Methane (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B), Sulfide (9034)

### 1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD QSM deviations noted in the laboratory case narrative?	X		
Were DoD QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The case narrative indicated that some surrogate and MS/MSD recoveries and duplicate RPDs were outside evaluation criteria and some analytes were detected in blank samples. These issues are discussed further in the ADR report.

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The RPD between the primary and confirmation column for some explosives samples was above evaluation criteria. This issue is discussed further in Section 7.0. Some CCV %Ds were outside of evaluation criteria. This issue is discussed further in Section 5.0.

The cooler receipt form indicated some discrepancies between the collection times listed on the COC and sample label IDs. Per the chemist, samples were logged via the labels or COC where appropriate and no qualification of data was required.

No other issues were noted in the case narrative or cooler receipt form.

### 2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?		X
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

See Section 1.0.

### 3.0 Initial Calibration

Method 8330A Initial Calibration Criteria			
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration:</b>	<b>3/4/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 20\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

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Method 8330A Initial Calibration Criteria			
Instrument:	CHHPLC_X3		
Date of Calibration:	3/4/2020		
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 20\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8330A Initial Calibration Criteria			
Instrument:	CHHPLC_X3		
Date of Calibration:	3/18/2020		
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 20\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8330A Initial Calibration Criteria			
Instrument:	CHHPLC_G2_LUNA		
Date of Calibration:	5/14/2020		
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 20\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

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Method 8330A Initial Calibration Criteria			
Instrument:	CHHPLC_G2_LUNA		
Date of Calibration:	5/14/2020		
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 20\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method RSK-175 Initial Calibration Criteria			
Instrument:	VGC_J		
Date of Calibration:	5/16/2020		
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 25\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method RSK-175 Initial Calibration Criteria			
Instrument:	VGC_J		
Date of Calibration:	6/24/2020		
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 25\%$ ?	X		
Option 2: If linear least squares regression was used was the $r^2 \geq 0.99$ ?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$ ?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 9056A Initial Calibration Criteria			
Instrument:	WC_IonChrom10		
Date of Calibration:	6/3/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

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Method 9056A Initial Calibration Criteria			
Instrument:	WC_IonChrom10		
Date of Calibration:	6/29/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

Method 9056A Initial Calibration Criteria			
Instrument:	WC_IonChrom10		
Date of Calibration:	7/1/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

Method 350.1 Initial Calibration Criteria			
Instrument:	WC_Alp 4		
Date of Calibration:	6/17/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

Method 353.2 Initial Calibration Criteria			
Instrument:	WC_Alp 2		
Date of Calibration:	6/22/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

Method 351.2 Initial Calibration Criteria			
Instrument:	WC_Astoria		
Date of Calibration:	6/23/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

Method 351.2 Initial Calibration Criteria			
Instrument:	WC_Astoria		
Date of Calibration:	6/24/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

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Method 9060A Initial Calibration Criteria			
Instrument:	WC_SHI2		
Date of Calibration:	6/29/2020		
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \geq 0.99$ ?	X		

### 4.0 Initial Calibration Verification [(ICV) Second Source]

Method 8330A ICV Criteria (Filename)			
Instrument:	03040015.D		
Date of Initial Calibration Verification:	CHHPLC_X3		
	3/4/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 15\%$ of the true value?	X		

Method 8330A ICV Criteria (Filename)			
Instrument:	03040033.D		
Date of Initial Calibration Verification:	CHHPLC_X3		
	3/5/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 15\%$ of the true value?	X		

Method 8330A ICV Criteria (Filename)			
Instrument:	03180016.D		
Date of Initial Calibration Verification:	CHHPLC_X3		
	3/18/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 15\%$ of the true value?	X		

Method 8330A ICV Criteria (Filename)			
Instrument:	05140016.D		
Date of Initial Calibration Verification:	CHHPLC_G2-LUNA		
	5/14/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 15\%$ of the true value?	X		

Method 8330A ICV Criteria (Filename)			
Instrument:	05140026.D		
Date of Initial Calibration Verification:	CHHPLC_G2-LUNA		
	5/15/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 15\%$ of the true value?	X		



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<b>Method RSK-175 ICV Criteria (Filename)</b>	<b>010F1001.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Initial Calibration Verification:</b>	<b>5/16/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 ICV Criteria (Filename)</b>	<b>06242011.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Initial Calibration Verification:</b>	<b>6/24/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method 9056A ICV</b>	<b>WC IonChrom10</b>		
<b>Date of Initial Calibration Verification:</b>	<b>6/3/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

<b>Method 9056A ICV</b>	<b>WC IonChrom10</b>		
<b>Date of Initial Calibration Verification:</b>	<b>6/29/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

<b>Method 9056A ICV</b>	<b>WC IonChrom10</b>		
<b>Date of Initial Calibration Verification:</b>	<b>7/1/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

<b>Method 350.1 ICV Criteria</b>	<b>WC Alp 4</b>		
<b>Date of Initial Calibration Verification:</b>	<b>6/17/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

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Method 353.2 ICV Criteria	WC Alp 2		
Date of Initial Calibration Verification:	6/22/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

Method 351.2 ICV Criteria	WC Astoria		
Date of Initial Calibration Verification:	6/23/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

Method 351.2 ICV Criteria	WC Astoria		
Date of Initial Calibration Verification:	6/24/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

Method 9060A ICV Criteria	WC SHI2		
Date of Initial Calibration Verification:	6/29/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	X		

## 5.0 Continuing Calibration Verification (CCV)

Method 8330A CCV Criteria (Filename)	06230015-6.D		
Instrument:	CHHPLC_X3		
Date of Calibration Verification:	6/23/2020		
	Yes	No	N/A
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06230027-8.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/24/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06230037-8.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/24/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06270017-9.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/27/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?		X	

The %D for 2,4,6-trinitrotoluene (17.6%) was outside of evaluation criteria with a high bias. Associated samples were nondetect and no qualification of data was required.

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06270030-2.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/27/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06270043-5.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/28/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06270051-3.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/28/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06300007-9.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/30/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06300021-2.D</b>		
<b>Instrument:</b>	<b>CHHPLC X3</b>		
<b>Date of Calibration Verification:</b>	<b>6/30/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06240028-9.D</b>		
<b>Instrument:</b>	<b>CHHPLC_G2_LUNA</b>		
<b>Date of Calibration Verification:</b>	<b>6/25/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06240040-1.D</b>		
<b>Instrument:</b>	<b>CHHPLC_G2_LUNA</b>		
<b>Date of Calibration Verification:</b>	<b>6/25/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06240050-1.D</b>		
<b>Instrument:</b>	<b>CHHPLC_G2_LUNA</b>		
<b>Date of Calibration Verification:</b>	<b>6/25/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

<b>Method 8330A CCV Criteria (Filename)</b>	<b>06300007-8.D</b>		
<b>Instrument:</b>	<b>CHHPLC_G2_LUNA</b>		
<b>Date of Calibration Verification:</b>	<b>6/30/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

Method 8330A CCV Criteria (Filename)	06300018-9.D		
Instrument:	CHHPLC_G2_LUNA		
Date of Calibration Verification:	7/1/2020		
	Yes	No	N/A
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

Method 8330A CCV Criteria (Filename)	06300030-1.D		
Instrument:	CHHPLC_G2_LUNA		
Date of Calibration Verification:	7/1/2020		
	Yes	No	N/A
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?	X		

Method 8330A CCV Criteria (Filename)	06300035-6.D		
Instrument:	CHHPLC_G2_LUNA		
Date of Calibration Verification:	7/1/2020		
	Yes	No	N/A
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 15\%$ of the true value?		X	

The %D for 4-nitrotoluene (95.6%) was outside of evaluation criteria with a high bias. Associated sample results were nondetect and no qualification of data was required.

Method RSK-175 CCV Criteria (Filename)	031F3101.D		
Instrument:	VGC J		
Date of Calibration Verification:	6/18/2020		
	Yes	No	N/A
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>048F4801.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/18/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>060F6001.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/18/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCVRT Criteria (Filename)</b>	<b>06192001.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/19/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>06192018.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/19/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>06192030.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/20/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>041F4101.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/20/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>06222030.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/22/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>06222035.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/22/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		



## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>041F4101.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/20/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>057F5701.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/20/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCVRT Criteria (Filename)</b>	<b>06252001.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/25/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method RSK-175 CCV Criteria (Filename)</b>	<b>06252018.D</b>		
<b>Instrument:</b>	<b>VGC J</b>		
<b>Date of Calibration Verification:</b>	<b>6/25/2020</b>		
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X		
Was the CCV for all analytes within $\pm 25\%$ of the true value?	X		

<b>Method 9056A, Instrument: WC IonChrom10, All CCVs on 6/3/2020</b>	<b>Yes</b>	<b>No</b>
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

<b>Method 9056A, Instrument: WC IonChrom10, All CCVs on 6/29/2020</b>	<b>Yes</b>	<b>No</b>
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

Method 9056A, Instrument: WC IonChrom10, All CCVs on 7/1/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

Method 350.1, Instrument: WC Alp 4, All CCVs on 6/17/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

Method 353.2, Instrument: WC Alp 2, All CCVs on 6/22/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

Method 351.2, Instrument: WC Astoria, All CCVs on 6/23/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

Method 351.2, Instrument: WC Astoria, All CCVs on 6/24/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

Method 9060A, Instrument: WC SHI2, All CCVs on 6/29/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

### 6.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

### 7.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Was professional judgment used to qualify data (if yes, list below)?	X		

The RPD between the primary and confirmation column for some explosives samples was above evaluation criteria. Qualification of data is shown in the table below; results were reported from primary column unless otherwise noted.

## CHAAP Data Verification

Laboratory and SDG#: TADenver 280-137702

AECOM Chemist: Jared DeSadier

Date Verified: 7/7/2020

AECOM ITR: Jeff Aust

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018)

Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

Sample ID	Analysis	Analyte	RPD	Qual
G0066R-20A	Explosives	HMX	123.7	J
G0085-20A	Explosives	HMX	59.6	J
PZ016-20A	Explosives	2-amino-4,6-dinitrotoluene	53.9	J
G0119-20A	Explosives	HMX	129.0	J
G0119-20A	Explosives	RDX	132.0	J
G0098-20A	Explosives	RDX	148.2	J
G0109-20A	Explosives	HMX	102.1	J
G0109-20A	Explosives	RDX	103.9	J
G0121-20A	Explosives	MNX	117.1	J
G0094-20A	Explosives	RDX	83.9	J
G0094-20A	Explosives	1,3-dinitrobenzene	61.3	J
G0099-20A	Explosives	RDX	89.4	J
G0099-20A	Explosives	2-amino-4,6-dinitrotoluene	135.8	J
G0022-20A	Explosives	2,4-dinitrotoluene	52.3	J
G0024-20A	Explosives	2,4,6-trinitrotoluene	57.2	J
G0113-20A	Explosives	1,3-dinitrobenzene	145.8	J

### 8.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were requested sample analyses performed, the correct analyte lists used, and correct sample preparation and analyses methods and units utilized?	X		