284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q1664

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

Table Of Contents for Q1664

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Cover Page

Order ID : Q1664

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q1664-01	P001-BBDGA-001-01
Q1664-02	P001-BBDGA-001-01MS
Q1664-03	P001-BBDGA-001-01MSD
Q1664-04	P001-BBDGA-001-01
Q1664-05	P001-BBDGA-001-01MS
Q1664-06	P001-BBDGA-001-01MSD
Q1664-07	P001-BBDGA-001-02
Q1664-08	P001-BBDGA-001-02
Q1664-09	P001-BBDGA-002-01
Q1664-10	P001-BBDGA-002-01
Q1664-11	P001-BBDGA-003-01
Q1664-12	P001-BBDGA-003-01
Q1664-13	P001-BBDGA-004-01
Q1664-14	P001-BBDGA-004-01
Q1664-15	P001-BBDGA-005-01
Q1664-16	P001-BBDGA-005-01
Q1664-17	P001-BBDGA-006-01
Q1664-18	P001-BBDGA-006-01
Q1664-19	P001-BBDGA-007-01
Q1664-20	P001-BBDGA-007-01
Q1664-21	P001-BBDGA-008-01
Q1664-22	P001-BBDGA-008-01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 11:29 am, Apr 08, 2025

Date: 4/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1664
Test Name: Cyanide,SPLP Cyanide

A. Number of Samples and Date of Receipt:
22 Solid samples were received on 03/27/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Cyanide,SPLP Cyanide.

C. Analytical Techniques:
The analysis of Cyanide,SPLP Cyanide was based on method 9012B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Calculations:

Calculation for CN Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg:

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Calculation for CN SPLP Sample:

$$\text{Concentration or Result (mg/L)} = C \times \frac{Vf}{Vi} \times DF / 1000$$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

F. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1664 MATRIX: Solid

METHOD: 9012B

		NA	NO	YES
1.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2.	Matrix Spike Duplicate Recoveries Met Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples.			✓
3.	Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
4.	Digestion Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:52 am, Apr 08, 2025

Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1664

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 04/02/2025

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LAB CHRONICLE

OrderID:	Q1664	**OrderDate:**	3/27/2025 10:47:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	I31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1664-01	**P001-BBDGA-001-01**	**SOIL**			**03/26/25 09:30**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:11	
Q1664-04	**P001-BBDGA-001-01**	**WATER**			**03/26/25 09:30**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:30	
Q1664-07	**P001-BBDGA-001-02**	**SOIL**			**03/26/25 09:30**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:19	
Q1664-08	**P001-BBDGA-001-02**	**WATER**			**03/26/25 09:30**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:38	
Q1664-09	**P001-BBDGA-002-01**	**SOIL**			**03/26/25 09:35**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:19	
Q1664-10	**P001-BBDGA-002-01**	**WATER**			**03/26/25 09:35**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:38	
Q1664-11	**P001-BBDGA-003-01**	**SOIL**			**03/26/25 09:40**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:19	

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LAB CHRONICLE

Q1664-12	**P001-BBDGA-003-01**	**WATER**			**03/26/25 09:40**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:38	
Q1664-13	**P001-BBDGA-004-01**	**SOIL**			**03/26/25 09:45**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:24	
Q1664-14	**P001-BBDGA-004-01**	**WATER**			**03/26/25 09:45**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:38	
Q1664-15	**P001-BBDGA-005-01**	**SOIL**			**03/26/25 09:50**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:24	
Q1664-16	**P001-BBDGA-005-01**	**WATER**			**03/26/25 09:50**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:44	
Q1664-17	**P001-BBDGA-006-01**	**SOIL**			**03/26/25 09:55**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:24	
Q1664-18	**P001-BBDGA-006-01**	**WATER**			**03/26/25 09:55**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:44	
Q1664-19	**P001-BBDGA-007-01**	**SOIL**			**03/26/25 10:00**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:24	
Q1664-20	**P001-BBDGA-007-01**	**WATER**			**03/26/25 10:00**			**03/27/25**

LAB CHRONICLE

			SPLP Cyanide	9012B		03/31/25	03/31/25 14:44	
Q1664-21	**P001-BBDGA-008-01**	**SOIL**			**03/26/25 10:05**			**03/27/25**
			Cyanide	9012B		03/31/25	03/31/25 11:24	
Q1664-22	**P001-BBDGA-008-01**	**WATER**			**03/26/25 10:05**			**03/27/25**
			SPLP Cyanide	9012B		03/31/25	03/31/25 14:44	

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:30
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-01	Matrix:	SOIL
		% Solid:	91.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.18	J	1	0.045	0.27	mg/Kg	03/31/25 08:00	03/31/25 11:11	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:30
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0017	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:30	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:30
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-07	Matrix:	SOIL
		% Solid:	92

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.19	J	1	0.044	0.26	mg/Kg	03/31/25 08:00	03/31/25 11:19	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:30
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0012	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:38	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:35
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-09	Matrix:	SOIL
		% Solid:	93.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.29		1	0.044	0.26	mg/Kg	03/31/25 08:00	03/31/25 11:19	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:35
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-10	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0013	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:38	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:40
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-11	Matrix:	SOIL
		% Solid:	94.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.092	J	1	0.043	0.25	mg/Kg	03/31/25 08:00	03/31/25 11:19	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:40
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-12	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.011		1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:38	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:45
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-13	Matrix:	SOIL
		% Solid:	95.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.093	J	1	0.044	0.26	mg/Kg	03/31/25 08:00	03/31/25 11:24	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:45
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0014	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:38	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:50
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-15	Matrix:	SOIL
		% Solid:	91.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.069	J	1	0.045	0.27	mg/Kg	03/31/25 08:00	03/31/25 11:24	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:50
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0012	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:44	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:55
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-17	Matrix:	SOIL
		% Solid:	93.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.096	J	1	0.043	0.26	mg/Kg	03/31/25 08:00	03/31/25 11:24	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 09:55
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-18	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0012	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:44	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 10:00
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-19	Matrix:	SOIL
		% Solid:	92.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.25	J	1	0.044	0.26	mg/Kg	03/31/25 08:00	03/31/25 11:24	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 10:00
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-20	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0013	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:44	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 10:05
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-21	Matrix:	SOIL
		% Solid:	94

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.10	J	1	0.043	0.25	mg/Kg	03/31/25 08:00	03/31/25 11:24	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25 10:05
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-22	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0017	J	1	0.00096	0.0050	mg/L	03/31/25 12:00	03/31/25 14:44	9012B

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Initial and Continuing Calibration Verification

Client:	Weston Solutions, Inc.	**SDG No.:**	Q1664
Project:	RFP 905	**RunNo.:**	LB135233

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.093	0.099	94	90-110	03/31/2025
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	03/31/2025
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	03/31/2025
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	03/31/2025

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Initial and Continuing Calibration Verification

Client:	Weston Solutions, Inc.	**SDG No.:**	Q1664
Project:	RFP 905	**RunNo.:**	LB135243

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.095	0.099	96	90-110	03/31/2025
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	03/31/2025
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	03/31/2025
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	03/31/2025

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Initial and Continuing Calibration Blank Summary

Client:	Weston Solutions, Inc.	**SDG No.:**	Q1664
Project:	RFP 905	**RunNo.:**	LB135233

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	0.0017	0.0025	J	0.00096	0.005	03/31/2025
Sample ID:	CCB1							
Cyanide		mg/L	0.0014	0.0025	J	0.00096	0.005	03/31/2025
Sample ID:	CCB2							
Cyanide		mg/L	0.0013	0.0025	J	0.00096	0.005	03/31/2025
Sample ID:	CCB3							
Cyanide		mg/L	0.0015	0.0025	J	0.00096	0.005	03/31/2025

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Initial and Continuing Calibration Blank Summary

Client: Weston Solutions, Inc. **SDG No.:** Q1664

Project: RFP 905 **RunNo.:** LB135243

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	0.0012	0.0025	J	0.00096	0.005	03/31/2025
Sample ID:	CCB1							
Cyanide		mg/L	0.0015	0.0025	J	0.00096	0.005	03/31/2025
Sample ID:	CCB2							
Cyanide		mg/L	0.0018	0.0025	J	0.00096	0.005	03/31/2025
Sample ID:	CCB3							
Cyanide		mg/L	0.0015	0.0025	J	0.00096	0.005	03/31/2025

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Preparation Blank Summary

Client: Weston Solutions, Inc. **SDG No.:** Q1664

Project: RFP 905

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB167387BL							
Cyanide	mg/Kg	0.071	0.1250	J	0.042	0.25	03/31/2025
Sample ID: PB167401BL							
Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	03/31/2025
Sample ID: PB167401TB							
Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	03/31/2025

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Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-01
Client ID: P001-BBDGA-001-01MS
Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.10		0.18	J	2.2	1	87		03/31/2025

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Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-01
Client ID: P001-BBDGA-001-01MSD
Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.10		0.18	J	2.2	1	87		03/31/2025

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Fax : 908 789 8922

Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-04
Client ID: P001-BBDGA-001-01MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.039		0.0017	J	0.04	1	93		03/31/2025

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Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-04
Client ID: P001-BBDGA-001-01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.039		0.0017	J	0.04	1	93		03/31/2025

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Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-01
Client ID: P001-BBDGA-001-01DUP
Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.18	J	0.18	J	1	0		03/31/2025

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Fax : 908 789 8922

Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-01
Client ID: P001-BBDGA-001-01MSD
Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.10		2.10		1	0		03/31/2025

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Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-04
Client ID: P001-BBDGA-001-01DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.0017	J	0.0017	J	1	0		03/31/2025

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Fax : 908 789 8922

Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: Q1664
Project: RFP 905
Sample ID: Q1664-04
Client ID: P001-BBDGA-001-01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.039		0.039		1	0		03/31/2025

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Laboratory Control Sample Summary

Client:	Weston Solutions, Inc.	**SDG No.:**	Q1664
Project:	RFP 905	**Run No.:**	LB135233

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167387BS**								
Cyanide	mg/Kg	5	4.70		94	1	85-115	03/31/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	Weston Solutions, Inc.	**SDG No.:**	Q1664
Project:	RFP 905	**Run No.:**	LB135243

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB167401BS**								
Cyanide	mg/L	0.1	0.093		93	1	85-115	03/31/2025

RAW DATA

LB

Test results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

3/31/2025 11:47

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	92.717	0.0	0.075	
ICB1	1.736	0.0	0.001	
CCV1	240.241	0.0	0.195	
CCB1	1.449	0.0	0.000	
PB167387BL	1.415	0.0	0.000	
PB167387BS	93.978	0.0	0.076	
LOWPB167387	10.960	0.0	0.008	
HIGHPB167387	479.342	0.0	0.389	
Q1664-01	3.393	0.0	0.002	
Q1664-01DUP	3.293	0.0	0.002	
Q1664-02MS	39.180	0.0	0.031	
Q1664-03MSD	38.564	0.0	0.030	
Q1664-07	3.665	0.0	0.002	
Q1664-09	5.505	0.0	0.004	
CCV2	244.278	0.0	0.198	
CCB2	1.315	0.0	0.000	
Q1664-11	1.820	0.0	0.001	
Q1664-13	1.794	0.0	0.001	
Q1664-15	1.285	0.0	0.000	
Q1664-17	1.857	0.0	0.001	
Q1664-19	4.843	0.0	0.003	
Q1664-21	2.028	0.0	0.001	
CCV3	253.378	0.0	0.205	
CCB3	1.477	0.0	0.000	

109% (90 - 110) NF
95%
03.31.2025

N	24
Mean	63.730
SD	120.6086
CV%	189.25

Aquakem v. 7.2AQ1
Results from time period:
Mon Mar 31 10:21:45 2025
Mon Mar 31 11:45:08 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	1.2783	µg/l	3/31/2025 10:21:45	
5.0PPBCN	A	Total CN	P	6.1487	µg/l	3/31/2025 10:21:46	
10PPBCN	A	Total CN	P	10.9269	µg/l	3/31/2025 10:21:47	
50PPBCN	A	Total CN	P	45.1728	µg/l	3/31/2025 10:21:48	
100PPBCN	A	Total CN	P	99.2307	µg/l	3/31/2025 10:21:49	
250PPBCN	A	Total CN	P	253.272	µg/l	3/31/2025 10:21:50	
500PPBCN	A	Total CN	P	498.9705	µg/l	3/31/2025 10:21:51	
ICV1	S	Total CN	P	92.7172	µg/l	3/31/2025 11:04:10	
ICB1	S	Total CN	P	1.7364	µg/l	3/31/2025 11:04:11	
CCV1	S	Total CN	P	240.2408	µg/l	3/31/2025 11:04:13	
CCB1	S	Total CN	P	1.4493	µg/l	3/31/2025 11:04:15	
PB167387BL	S	Total CN	P	1.4148	µg/l	3/31/2025 11:04:18	
PB167387BS	S	Total CN	P	93.9777	µg/l	3/31/2025 11:04:19	
LOWPB167387	S	Total CN	P	10.9596	µg/l	3/31/2025 11:11:38	
HIGHPB167387	S	Total CN	P	479.3417	µg/l	3/31/2025 11:11:41	
Q1664-01	S	Total CN	P	3.3933	µg/l	3/31/2025 11:11:42	
Q1664-01DUP	S	Total CN	P	3.2926	µg/l	3/31/2025 11:11:45	
Q1664-02MS	S	Total CN	P	39.1798	µg/l	3/31/2025 11:11:47	
Q1664-03MSD	S	Total CN	P	38.5645	µg/l	3/31/2025 11:19:11	
Q1664-07	S	Total CN	P	3.6653	µg/l	3/31/2025 11:19:16	
Q1664-09	S	Total CN	P	5.5051	µg/l	3/31/2025 11:19:17	
CCV2	S	Total CN	P	244.2784	µg/l	3/31/2025 11:19:18	
CCB2	S	Total CN	P	1.3146	µg/l	3/31/2025 11:19:19	
Q1664-11	S	Total CN	P	1.8198	µg/l	3/31/2025 11:19:20	
Q1664-13	S	Total CN	P	1.7941	µg/l	3/31/2025 11:24:53	
Q1664-15	S	Total CN	P	1.2854	µg/l	3/31/2025 11:24:54	
Q1664-17	S	Total CN	P	1.8565	µg/l	3/31/2025 11:24:55	
Q1664-19	S	Total CN	P	4.8427	µg/l	3/31/2025 11:24:56	
Q1664-21	S	Total CN	P	2.0279	µg/l	3/31/2025 11:24:57	
CCV3	S	Total CN	P	253.3777	µg/l	3/31/2025 11:24:58	
CCB3	S	Total CN	P	1.4768	µg/l	3/31/2025 11:24:59	

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

3/31/2025 10:30

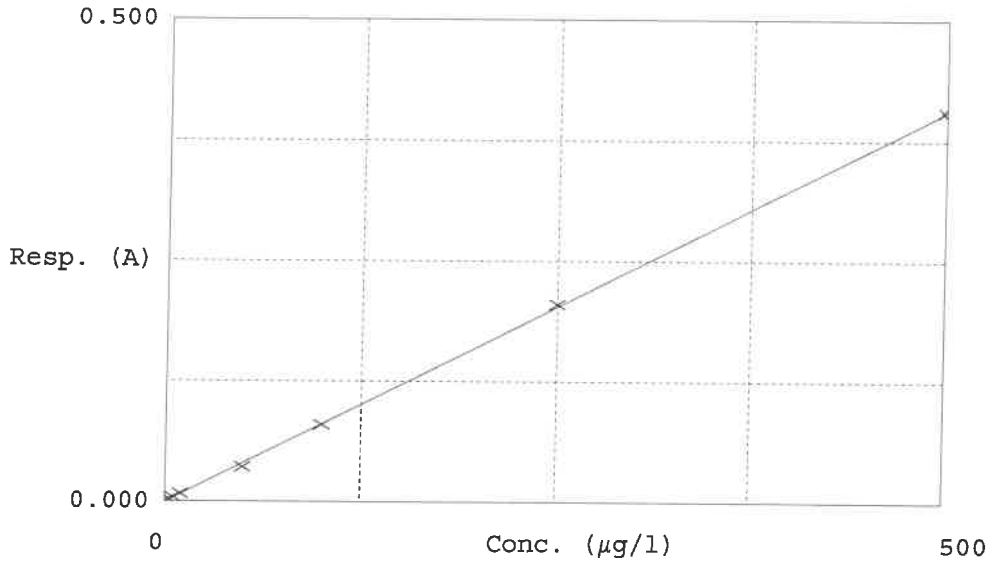
Test Total CN

Accepted 3/31/2025 10:30

Factor 1229
Bias -0.001

Coeff. of det. 0.999808

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)	
1	0.0PPBCN	0.000	1.2783	0.0000		
2	5.0PPBCN	0.004	6.1487	5.0000	23.0	
3	10PPBCN	0.008	10.9269	10.0000	9.3	
4	50PPBCN	0.036	45.1728	50.0000	-9.7	
5	100PPBCN	0.080	99.2307	100.0000	-0.8	NF
6	250PPBCN	0.205	253.2720	250.0000	1.3	
7	500PPBCN	0.405	498.9705	500.0000	-0.2	03.31.2025

LB13

Test results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

3/31/2025 14:47

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	94.930	0.0	0.076	
ICB1	1.248	0.0	0.000	
CCV1	244.532	0.0	0.198	
CCB1	1.476	0.0	0.000	
PB167401BL	1.449	0.0	0.000	
PB167401BS	93.285	0.0	0.075	
PB167401TB	1.255	0.0	0.000	
Q1664-04	1.680	0.0	0.000	
Q1664-04DUP	1.658	0.0	0.000	
Q1664-05MS	39.075	0.0	0.031	
Q1664-06MSD	39.074	0.0	0.031	
Q1664-08	1.165	0.0	0.000	
Q1664-10	1.327	0.0	0.000	
Q1664-12	11.068	0.0	0.008	
CCV2	244.239	0.0	0.198	
CCB2	1.800	0.0	0.001	
Q1664-14	1.383	0.0	0.000	
Q1664-16	1.206	0.0	0.000	
Q1664-18	1.224	0.0	0.000	
Q1664-20	1.332	0.0	0.000	
Q1664-22	1.699	0.0	0.000	
CCV3	249.330	0.0	0.202	
CCB3	1.488	0.0	0.000	

N	23
Mean	45.084
SD	84.1500
CV%	186.65

Aquakem v. 7.2AQ1
Results from time period:
Mon Mar 31 10:21:45 2025
Mon Mar 31 14:44:16 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	1.2783	µg/l	3/31/2025 10:21:45	
5.0PPBCN	A	Total CN	P	6.1487	µg/l	3/31/2025 10:21:46	
10PPBCN	A	Total CN	P	10.9269	µg/l	3/31/2025 10:21:47	
50PPBCN	A	Total CN	P	45.1728	µg/l	3/31/2025 10:21:48	
100PPBCN	A	Total CN	P	99.2307	µg/l	3/31/2025 10:21:49	
250PPBCN	A	Total CN	P	253.272	µg/l	3/31/2025 10:21:50	
500PPBCN	A	Total CN	P	498.9705	µg/l	3/31/2025 10:21:51	
ICV1	S	Total CN	P	94.9297	µg/l	3/31/2025 14:23:00	
ICB1	S	Total CN	P	1.2479	µg/l	3/31/2025 14:23:01	
CCV1	S	Total CN	P	244.5323	µg/l	3/31/2025 14:23:04	
CCB1	S	Total CN	P	1.4761	µg/l	3/31/2025 14:23:06	
PB167401BL	S	Total CN	P	1.4488	µg/l	3/31/2025 14:23:08	
PB167401BS	S	Total CN	P	93.2847	µg/l	3/31/2025 14:23:09	
PB167401TB	S	Total CN	P	1.2551	µg/l	3/31/2025 14:30:24	
Q1664-04	S	Total CN	P	1.6796	µg/l	3/31/2025 14:30:27	
Q1664-04DUP	S	Total CN	P	1.6585	µg/l	3/31/2025 14:30:29	
Q1664-05MS	S	Total CN	P	39.0754	µg/l	3/31/2025 14:30:30	
Q1664-06MSD	S	Total CN	P	39.0742	µg/l	3/31/2025 14:30:32	
Q1664-08	S	Total CN	P	1.1654	µg/l	3/31/2025 14:38:03	
Q1664-10	S	Total CN	P	1.3268	µg/l	3/31/2025 14:38:04	
Q1664-12	S	Total CN	P	11.0677	µg/l	3/31/2025 14:38:05	
CCV2	S	Total CN	P	244.2393	µg/l	3/31/2025 14:38:06	
CCB2	S	Total CN	P	1.8002	µg/l	3/31/2025 14:38:07	
Q1664-14	S	Total CN	P	1.3826	µg/l	3/31/2025 14:38:08	
Q1664-16	S	Total CN	P	1.2063	µg/l	3/31/2025 14:44:09	
Q1664-18	S	Total CN	P	1.224	µg/l	3/31/2025 14:44:10	
Q1664-20	S	Total CN	P	1.3318	µg/l	3/31/2025 14:44:11	
Q1664-22	S	Total CN	P	1.6987	µg/l	3/31/2025 14:44:12	
CCV3	S	Total CN	P	249.3297	µg/l	3/31/2025 14:44:15	
CCB3	S	Total CN	P	1.4876	µg/l	3/31/2025 14:44:16	

Calibration results Aquakem 7.2AQ1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

3/31/2025 10:30

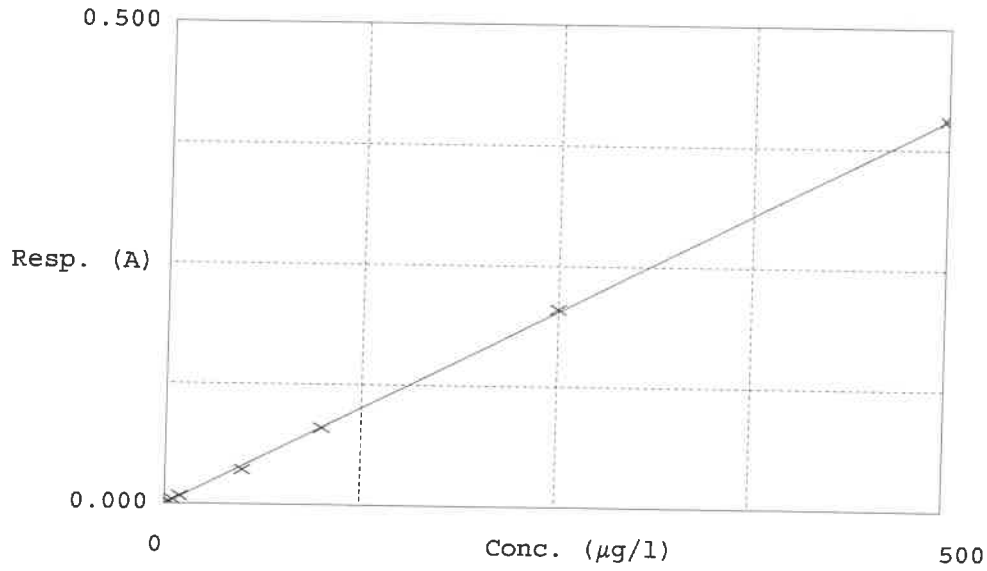
Test Total CN

Accepted 3/31/2025 10:30

Factor 1229
Bias -0.001

Coeff. of det. 0.999808

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)
1	0.0PPBCN	0.000	1.2783	0.0000	
2	5.0PPBCN	0.004	6.1487	5.0000	23.0
3	10PPBCN	0.008	10.9269	10.0000	9.3
4	50PPBCN	0.036	45.1728	50.0000	-9.7
5	100PPBCN	0.080	99.2307	100.0000	-0.8
6	250PPBCN	0.205	253.2720	250.0000	1.3
7	500PPBCN	0.405	498.9705	500.0000	-0.2

NF
03.31.2025

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB167387

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : SOIL

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : N/A

Weigh By : JP

Start Digest Date: 03/31/2025 **Time :** 08:00 **Temp :** 124 °C

End Digest Date: 03/31/2025 **Time :** 09:30 **Temp :** 126 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: JP

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
PBS003	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP111295
LOWSTD	LOWSTD	0.1ML	WP111295

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03·31·2025, 09:45	JP / WC	NF/WC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB167387

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167387BL	PBS387	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167387BS	LCS387	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-01DUP	P001-BBDGA-001-01DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-01	P001-BBDGA-001-01	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-02	Q1664-01MS	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-03	Q1664-01MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-07	P001-BBDGA-001-02	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-09	P001-BBDGA-002-01	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-11	P001-BBDGA-003-01	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-13	P001-BBDGA-004-01	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-15	P001-BBDGA-005-01	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-17	P001-BBDGA-006-01	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-19	P001-BBDGA-007-01	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-21	P001-BBDGA-008-01	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn q1664 **WorkList ID :** 188599 **Department :** Distillation **Date :** 03-27-2025 13:02:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1664-01	P001-BBDGA-001-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-02	Q1664-01MS	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-03	Q1664-01MSD	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-07	P001-BBDGA-001-02	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-09	P001-BBDGA-002-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-11	P001-BBDGA-003-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-13	P001-BBDGA-004-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-15	P001-BBDGA-005-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-17	P001-BBDGA-006-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-19	P001-BBDGA-007-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-21	P001-BBDGA-008-01	Solid	Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B

Date/Time 03·31·2025 , 07:30
Raw Sample Received by: [signature] WC
Raw Sample Relinquished by: [signature]

Date/Time 03·31·2025 , 10:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature] WC

Alliance TECHNICAL GROUP

Water SPLP Cyanide Preparation Sheet

PB167401

SOP ID : N/A

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : N/A

Start Digest Date: 03/31/2025 **Time :** 12:00 **Temp :** 123 °C

End Digest Date: 03/31/2025 **Time :** 13:30 **Temp :** 126 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature:

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50ML	WP111294
50% v/v H2SO4	5ML	WP110391
51% w/v MgCL2	2ML	WP110390
pH Paper 0-14	N/A	W3140
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	AS PER PB167387
LOWSTD	LOWSTD	0.1ML	AS PER PB167387

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03.31.2025, 13:45		NF/WC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water SPLP Cyanide Preparation Sheet

PB167401

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167401BL	PBW401	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB167401BS	LCS401	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB167401TB	LEB401	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-04DUP	P001-BBDGA-001-01DUP	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-04	P001-BBDGA-001-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-05	Q1664-04MS	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-06	Q1664-04MSD	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-08	P001-BBDGA-001-02	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-10	P001-BBDGA-002-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-12	P001-BBDGA-003-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-14	P001-BBDGA-004-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-16	P001-BBDGA-005-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-18	P001-BBDGA-006-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-20	P001-BBDGA-007-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q1664-22	P001-BBDGA-008-01	50	50	>12	Negative	Negative	Negative	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SPLP CN-03312025 **WorkList ID :** 188643 **Department :** Distillation **Date :** 03-31-2025 10:42:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1664-04	P001-BBDGA-001-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-05	Q1664-04MS	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-06	Q1664-04MSD	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-08	P001-BBDGA-001-02	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-10	P001-BBDGA-002-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-12	P001-BBDGA-003-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-14	P001-BBDGA-004-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-16	P001-BBDGA-005-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-18	P001-BBDGA-006-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-20	P001-BBDGA-007-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B
Q1664-22	P001-BBDGA-008-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	I31	03/26/2025	9012B

Date/Time 03. 31. 2025, 10:50
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 03. 31. 2025, 14:00
Raw Sample Received by:
Raw Sample Relinquished by:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135233

Review By	Niha	Review On	3/31/2025 4:25:52 PM
Supervise By	Iwona	Supervise On	3/31/2025 4:31:05 PM
SubDirectory	LB135233	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112546,WP112547,WP112548,WP112549,WP112550,WP112551
ICV Standard	W3012
CCV Standard	WP112547
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112554

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/31/25 10:21		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/31/25 10:21		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/31/25 10:21		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/31/25 10:21		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/31/25 10:21		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/31/25 10:21		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/31/25 10:21		Niha	OK
8	ICV1	ICV1	ICV	03/31/25 11:04		Niha	OK
9	ICB1	ICB1	ICB	03/31/25 11:04		Niha	OK
10	CCV1	CCV1	CCV	03/31/25 11:04		Niha	OK
11	CCB1	CCB1	CCB	03/31/25 11:04		Niha	OK
12	PB167387BL	PB167387BL	MB	03/31/25 11:04		Niha	OK
13	PB167387BS	PB167387BS	LCS	03/31/25 11:04		Niha	OK
14	LOWPB167387	LOWPB167387	SAM	03/31/25 11:11		Niha	OK
15	HIGHPB167387	HIGHPB167387	SAM	03/31/25 11:11		Niha	OK
16	Q1664-01	P001-BBDGA-001-01	SAM	03/31/25 11:11		Niha	OK
17	Q1664-01DUP	P001-BBDGA-001-01	DUP	03/31/25 11:11		Niha	OK
18	Q1664-02	P001-BBDGA-001-01	MS	03/31/25 11:11		Niha	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135233

Review By	Niha	Review On	3/31/2025 4:25:52 PM
Supervise By	Iwona	Supervise On	3/31/2025 4:31:05 PM
SubDirectory	LB135233	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112546,WP112547,WP112548,WP112549,WP112550,WP112551
ICV Standard	W3012
CCV Standard	WP112547
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112554

19	Q1664-03	P001-BBDGA-001-01	MSD	03/31/25 11:19		Niha	OK
20	Q1664-07	P001-BBDGA-001-02	SAM	03/31/25 11:19		Niha	OK
21	Q1664-09	P001-BBDGA-002-01	SAM	03/31/25 11:19		Niha	OK
22	CCV2	CCV2	CCV	03/31/25 11:19		Niha	OK
23	CCB2	CCB2	CCB	03/31/25 11:19		Niha	OK
24	Q1664-11	P001-BBDGA-003-01	SAM	03/31/25 11:19		Niha	OK
25	Q1664-13	P001-BBDGA-004-01	SAM	03/31/25 11:24		Niha	OK
26	Q1664-15	P001-BBDGA-005-01	SAM	03/31/25 11:24		Niha	OK
27	Q1664-17	P001-BBDGA-006-01	SAM	03/31/25 11:24		Niha	OK
28	Q1664-19	P001-BBDGA-007-01	SAM	03/31/25 11:24		Niha	OK
29	Q1664-21	P001-BBDGA-008-01	SAM	03/31/25 11:24		Niha	OK
30	CCV3	CCV3	CCV	03/31/25 11:24		Niha	OK
31	CCB3	CCB3	CCB	03/31/25 11:24		Niha	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135243

Review By	Niha	Review On	3/31/2025 4:39:39 PM
Supervise By	Iwona	Supervise On	3/31/2025 4:39:45 PM
SubDirectory	LB135243	Test	SPLP Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112546,WP112547,WP112548,WP112549,WP112550,WP112551
ICV Standard	W3012
CCV Standard	WP112547
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112554

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/31/25 10:21		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/31/25 10:21		Niha	OK
3	10PPBCN	10PPBCN	CAL3	03/31/25 10:21		Niha	OK
4	50PPBCN	50PPBCN	CAL4	03/31/25 10:21		Niha	OK
5	100PPBCN	100PPBCN	CAL5	03/31/25 10:21		Niha	OK
6	250PPBCN	250PPBCN	CAL6	03/31/25 10:21		Niha	OK
7	500PPBCN	500PPBCN	CAL7	03/31/25 10:21		Niha	OK
8	ICV1	ICV1	ICV	03/31/25 14:23		Niha	OK
9	ICB1	ICB1	ICB	03/31/25 14:23		Niha	OK
10	CCV1	CCV1	CCV	03/31/25 14:23		Niha	OK
11	CCB1	CCB1	CCB	03/31/25 14:23		Niha	OK
12	PB167401BL	PB167401BL	MB	03/31/25 14:23		Niha	OK
13	PB167401BS	PB167401BS	LCS	03/31/25 14:23		Niha	OK
14	PB167401TB	PB167401TB	MB	03/31/25 14:30		Niha	OK
15	Q1664-04	P001-BBDGA-001-01	SAM	03/31/25 14:30		Niha	OK
16	Q1664-04DUP	P001-BBDGA-001-01	DUP	03/31/25 14:30		Niha	OK
17	Q1664-05	P001-BBDGA-001-01	MS	03/31/25 14:30		Niha	OK
18	Q1664-06	P001-BBDGA-001-01	MSD	03/31/25 14:30		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135243

Review By	Niha	Review On	3/31/2025 4:39:39 PM
Supervise By	Iwona	Supervise On	3/31/2025 4:39:45 PM
SubDirectory	LB135243	Test	SPLP Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112546,WP112547,WP112548,WP112549,WP112550,WP112551
ICV Standard	W3012
CCV Standard	WP112547
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP111035,WP110103,WP112554

19	Q1664-08	P001-BBDGA-001-02	SAM	03/31/25 14:38		Niha	OK
20	Q1664-10	P001-BBDGA-002-01	SAM	03/31/25 14:38		Niha	OK
21	Q1664-12	P001-BBDGA-003-01	SAM	03/31/25 14:38		Niha	OK
22	CCV2	CCV2	CCV	03/31/25 14:38		Niha	OK
23	CCB2	CCB2	CCB	03/31/25 14:38		Niha	OK
24	Q1664-14	P001-BBDGA-004-01	SAM	03/31/25 14:38		Niha	OK
25	Q1664-16	P001-BBDGA-005-01	SAM	03/31/25 14:44		Niha	OK
26	Q1664-18	P001-BBDGA-006-01	SAM	03/31/25 14:44		Niha	OK
27	Q1664-20	P001-BBDGA-007-01	SAM	03/31/25 14:44		Niha	OK
28	Q1664-22	P001-BBDGA-008-01	SAM	03/31/25 14:44		Niha	OK
29	CCV3	CCV3	CCV	03/31/25 14:44		Niha	OK
30	CCB3	CCB3	CCB	03/31/25 14:44		Niha	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1664

Test : Cyanide,Percent Solids,SPLP Cyanide

Prepbatch ID : PB167387,PB167401,

Sequence ID/Qc Batch ID: LB135233,LB135243,

Standard ID :
WP110103,WP110390,WP110391,WP111035,WP111294,WP111295,WP111296,WP112545,WP112546,WP112547,WP112548,WP112549,WP112550,WP112551,WP112554,

Chemical ID :
M5673,M6121,W2668,W2882,W3001,W3012,W3019,W3101,W3112,W3113,W3138,W3139,W3140,W3154,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/08/2024

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP110390	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
607	PYRIDINE-BARBITURIC ACID	WP111035	12/09/2024	04/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 12/10/2024

FROM 145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M6121 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/07/2025

FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP111295	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 1.00000ml of W3154 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3371	Cyanide LCS Spike Solution, 5PPM	WP111296	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 1.00000ml of W3138 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3456	Cyanide Intermediate Working Std, 5PPM	WP112545	03/31/2025	04/01/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/01/2025

FROM 0.25000ml of W3154 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP112546	03/31/2025	04/01/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 04/01/2025

FROM 45.00000ml of WP111294 + 5.00000ml of WP112545 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3761	Calibration-CCV CN Standard 250 ppb	WP112547	03/31/2025	04/01/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 04/01/2025

FROM 2.50000ml of WP112545 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP112548	03/31/2025	04/01/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/01/2025

FROM 1.00000ml of WP112545 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
7	Calibration Standard 50 ppb	WP112549	03/31/2025	04/01/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/01/2025

FROM 0.50000ml of WP112545 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP112550	03/31/2025	04/01/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/01/2025

FROM 1.00000ml of WP112546 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9	Calibration Standard 5 ppb	WP112551	03/31/2025	04/01/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 04/01/2025

FROM 0.50000ml of WP112546 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP112554	03/31/2025	04/01/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/01/2025

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 / Iwona	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / Iwona	06/06/2022 / Iwona	W3001

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / Iwona	02/20/2020 / Iwona	W3012

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	402403	04/30/2026	05/02/2024 / Iwona	04/10/2024 / Iwona	W3101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	44080060	01/30/2025	09/06/2024 / Iwona	08/28/2024 / Iwona	W3138

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / Iwona	09/17/2024 / Iwona	W3140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1411J58	05/31/2025	12/02/2024 / Iwona	12/02/2024 / Iwona	W3154

~~W2918~~ W3001 Rec. 06/06/22 exp. 06/06/27

Chem-Impex International, Inc.

Tel: (630) 766-2112
E-mail: sales@chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191

Fax: (630) 766-2218
Web site: www.chemimpex.com
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Product	**Magnesium chloride hexahydrate**
Lot Number	002251-03319
	Magnesium chloride•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
Molecular Weight	203.3

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237 **Lot Number: 002251-03319**

Remarks	See material safety data sheet for additional information
	For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar
Quality Control Manager

Sigma-Aldrich.

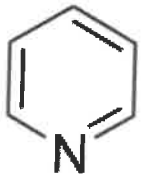
W3019
Rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Pyridine - anhydrous, 99.8%

Product Number:	**270970**
Batch Number:	**SHBQ2113**
Brand:	SIAL
CAS Number:	110-86-1
MDL Number:	MFCD00011732
Formula:	C5H5N
Formula Weight:	79.10 g/mol
Quality Release Date:	15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %

Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

W2160, W2161, W2162, W2163, W2164 Receive by AP on 9/2/2016

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

A15873-78
A-3

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	1
ACS – Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

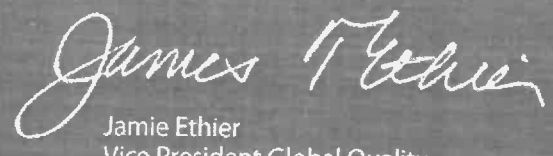
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

Sodium Phosphate, Monobasic, Monohydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaH_2PO_4 \cdot H_2O$)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (Cl)	<= 5 ppm	< 5
ACS - Sulfate (SO_4)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	<0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities - Iron (Fe)	<= 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: August 01, 2024

Lot Number: **44080060**

Expiration Date: January 30, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.008mg/mL
Concentration (CN)	990 - 1,010ppm	1,008ppm
Traceable to NIST SRM	Report	999b

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.*

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

ThermoFisher SCIENTIFIC

Certificate of Analysis

W3139 Received on 9/9/24 by IZ

Product No.:	A12044
Product:	Chloramine-T trihydrate, 98%
Lot No.:	10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

RICCA CHEMICAL COMPANY®
W3154 Rec. on 12/2/24 by IZ

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 1411J58 **Product Number:** 2543

Manufacture Date: NOV 22, 2024
Expiration Date: MAY 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.
Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN^-)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Luis Briceno (11/22/2024)
Operations Supervisor

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 03/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 03/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135218

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1664-01	P001-BBDGA-001-01	1	1.15	11.21	12.36	11.44	91.8	
Q1664-02	Q1664-01MS	2	1.15	11.21	12.36	11.44	91.8	
Q1664-03	Q1664-01MSD	3	1.15	11.21	12.36	11.44	91.8	
Q1664-07	P001-BBDGA-001-02	4	1.15	10.16	11.31	10.5	92.0	
Q1664-09	P001-BBDGA-002-01	5	1.16	10.35	11.51	10.84	93.5	
Q1664-11	P001-BBDGA-003-01	6	1.18	10.46	11.64	11.08	94.6	
Q1664-13	P001-BBDGA-004-01	7	1.13	10.13	11.26	10.79	95.4	
Q1664-15	P001-BBDGA-005-01	8	1.19	10.75	11.94	11.05	91.7	
Q1664-17	P001-BBDGA-006-01	9	1.19	10.99	12.18	11.51	93.9	
Q1664-19	P001-BBDGA-007-01	10	1.18	10.24	11.42	10.68	92.8	
Q1664-21	P001-BBDGA-008-01	11	1.14	11.34	12.48	11.8	94.0	
Q1671-01	WC-1	12	1.15	10.43	11.58	9.86	83.5	
Q1671-02	WC-1-EPH	13	1.16	10.32	11.48	10.02	85.9	
Q1671-03	WC-1-VOC	14	1.18	10.53	11.71	10.12	84.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

JB 135218

WorkList Name : %1-032725 **WorkList ID :** 188585 **Department :** Wet-Chemistry **Date :** 03-27-2025 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1664-01	P001-BBDGA-001-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-02	Q1664-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-03	Q1664-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-07	P001-BBDGA-001-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-09	P001-BBDGA-002-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-11	P001-BBDGA-003-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-13	P001-BBDGA-004-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-15	P001-BBDGA-005-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-17	P001-BBDGA-006-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-19	P001-BBDGA-007-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1664-21	P001-BBDGA-008-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	I31	03/26/2025	Chemtech -SO
Q1671-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/27/2025	Chemtech -SO
Q1671-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/27/2025	Chemtech -SO
Q1671-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/27/2025	Chemtech -SO

Date/Time 03/27/25 15:25
Raw Sample Received by: JB WC1
Raw Sample Relinquished by: [signature]

Date/Time 03/27/25 17:10
Raw Sample Received by: [signature]
Raw Sample Relinquished by: JB WC1

SHIPPING DOCUMENTS

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-01	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	8:35 3-27-25		8:35 3-27-25	IR Gun #1 2.1 C no Custody Seal Temp Blank present

Q16664

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-02	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0855 3/27/25		8:35 3-27-25	IR Gun #1 2.1°C
					No Custody Seal
					Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-002-01	P001-BBDGA-002		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		F	SPLP EPH	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		G	SPLP VOCs	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		0835 3-27-25	IR Gun #1 2.1°C
					No Custody Seal
					No ~~Info~~ Temp Blank

Q16664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-003-01	P001-BBDGA-003		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		F	SPLP EPH	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		G	SPLP VOCs	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3-27-25	IR Cont # 1 2.1°
					No Custody Seal
					Temp Blank pres

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-004-01	P001-BBDGA-004		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		F	SPLP EPH	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		G	SPLP VOCs	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0935 3/27/25		0:35 3.27.25	If C-#1 2.1 °C No Custody Seal Temp Blk present

Q16664

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-005-01	P001-BBDGA-005		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		F	SPLP EPH	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		G	SPLP VOCs	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3-27-25	IR Gun #1 2.1 No Custody Seal Trip Blank

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-006-01	P001-BBDGA-006		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		F	SPLP EPH	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		G	SPLP VOCs	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	3/27/25 0835		0835 3-27-25	IR Gun 1 2.1 C No Custody Seal Intact Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-007-01	P001-BBDGA-007		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		F	SPLP EPH	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		G	SPLP VOCs	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	3/27/25 0835		0835 3-27-25	IR Gun #1 2.1°C No Custody Seal Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-008-01	P001-BBDGA-008		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		F	SPLP EPH	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		G	SPLP VOCs	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3.27.25	IR Gun #1 2.1 C no Custody Seal Temp Blank present

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 3/27/2025 10:47:00 AM
Project Name : RFP 905
Receive DateTime : 3/27/2025 8:35:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q1664-01	P001-BBDGA-001-01	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days	3 Days	
Q1664-02	Q1664-01MS	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-03	Q1664-01MSD	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-07	P001-BBDGA-001-02	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-09	P001-BBDGA-002-01	Solid	03/26/2025	09:35						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-11	P001-BBDGA-003-01	Solid	03/26/2025	09:40						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-13	P001-BBDGA-004-01	Solid	03/26/2025	09:45						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-15	P001-BBDGA-005-01	Solid	03/26/2025	09:50						

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 3/27/2025 10:47:00 AM
Project Name : RFP 905
Receive DateTime : 3/27/2025 8:35:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days		3 days
Q1664-17	P001-BBDGA-006-01	Solid	03/26/2025	09:55						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-19	P001-BBDGA-007-01	Solid	03/26/2025	10:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-21	P001-BBDGA-008-01	Solid	03/26/2025	10:05						
					VOC-TCLVOA-10		8260D	10 Bus. Days		

Relinguished By :
Date / Time : 3/27/25 1200

Received By :
Date / Time : 03.27.25 12:00
Storage Area : VOA Refridgerator Room