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

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : FORT MEADE MD TIPTON AIRFIELD PARCEL RI - 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : Q1548

ATTENTION : Nathan Fretz

Laboratory Certification ID # 20012

Table Of Contents for Q1548

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Cover Page

Order ID : Q1548

Project ID : Fort Meade MD Tipton Airfield Parcel RI - 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1548-01	TAPLPR-SED12-031125-00-T2
Q1548-02	TAPLPR-SED13-031125-00-T2
Q1548-03	TAPIAL2-SED03-031125-00-T2

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 : _____ Date: 3/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions
Project Name: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Project # N/A
Chemtech Project # Q1548
Test Name: pH,TOC

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 03/12/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: pH and TOC. This data package contains results for pH,TOC.

C. Analytical Techniques:
The analysis of pH was based on method 9045D and The analysis of TOC was based on method 9060A.

D. QA/ QC Samples:
The Holding Times were met for all samples except for TAPIAL2-SED03-031125-00-T2 of pH, for TAPLPR-SED12-031125-00-T2 of pH.for TAPLPR-SED13-031125-00-T2 of pH as samples were receive out of holding time.
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 (TAPLPR-SED13-031125-00-T2MSD) analysis met criteria for all samples except for TOC due to matrix interferences.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Lab has used least representable sample weight for the sample Q1548-02 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

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: Q1548 MATRIX: Solid

METHOD: 9045D,9060A

		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. The Matrix Spike analysis met criteria for all samples. The Matrix Spike Duplicate (TAPLPR-SED13-031125-00-T2MSD) analysis met criteria for all samples except for TOC due to matrix interferences.			
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:			
	The Holding Times were met for all samples except for TAPIAL2-SED03-031125-00-T2 of pH, for TAPLPR-SED12-031125-00-T2 of pH.for TAPLPR-SED13-031125-00-T2 of pH as samples were receive out of holding time.			

ADDITIONAL COMMENTS:

Lab has used least representable sample weight for the sample Q1548-02 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1548

	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:** 03/21/2025

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LAB CHRONICLE

OrderID:	Q1548	**OrderDate:**	3/12/2025 9:35:00 AM
Client:	Weston Solutions	**Project:**	Fort Meade MD Tipton Airfield Parcel RI - 0111169
Contact:	Nathan Fretz	**Location:**	I41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1548-01	**TAPLPR-SED12-03112 5-00-T2**	**SOIL**			**03/11/25 12:05**			**03/12/25**
			pH	9045D			03/13/25 09:14	
			TOC	9060A			03/20/25 10:40	
Q1548-02	**TAPLPR-SED13-03112 5-00-T2**	**SOIL**			**03/11/25 12:55**			**03/12/25**
			pH	9045D			03/13/25 09:25	
			TOC	9060A			03/20/25 11:08	
Q1548-03	**TAPIAL2-SED03-0311 25-00-T2**	**SOIL**			**03/11/25 13:55**			**03/12/25**
			pH	9045D			03/13/25 09:33	
			TOC	9060A			03/20/25 12:51	

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions	Date Collected:	03/11/25 12:05
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/12/25
Client Sample ID:	TAPLPR-SED12-031125-00-T2	SDG No.:	Q1548
Lab Sample ID:	Q1548-01	Matrix:	SOIL
		% Solid:	84.6

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.29	H	1	0	0	0	pH		03/13/25 09:14	9045D
TOC	2110		1	28.9	50.0	250	mg/Kg		03/20/25 10:40	9060A

Comments: pH result reported at temperature 21.4 °C

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	Date Collected:	03/11/25 12:55
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/12/25
Client Sample ID:	TAPLPR-SED13-031125-00-T2	SDG No.:	Q1548
Lab Sample ID:	Q1548-02	Matrix:	SOIL
		% Solid:	55.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.63	H	1	0	0	0	pH		03/13/25 09:25	9045D
TOC	15500	OR	1	28.9	50.0	250	mg/Kg		03/20/25 11:08	9060A

Comments: pH result reported at temperature 21.3 °C

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	Date Collected:	03/11/25 13:55
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/12/25
Client Sample ID:	TAPIAL2-SED03-031125-00-T2	SDG No.:	Q1548
Lab Sample ID:	Q1548-03	Matrix:	SOIL
		% Solid:	72

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	4.57	H	1	0	0	0	pH		03/13/25 09:33	9045D
TOC	11200		1	28.9	50.0	250	mg/Kg		03/20/25 12:51	9060A

Comments: pH result reported at temperature 20.6 °C

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

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Initial and Continuing Calibration Verification

Client:	Weston Solutions	**SDG No.:**	Q1548
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	**RunNo.:**	LB135014

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
pH		pH	7.01	7	100	90-110	03/13/2025
Sample ID:	**CCV1**						
pH		pH	2.01	2.00	101	90-110	03/13/2025
Sample ID:	**CCV2**						
pH		pH	12.02	12.00	100	90-110	03/13/2025

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Initial and Continuing Calibration Verification

Client:	Weston Solutions	**SDG No.:**	Q1548
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	**RunNo.:**	LB135101

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TOC		mg/L	1030	1000	103	90-110	03/14/2025
Sample ID:	**CCV1**						
TOC		mg/L	1030	1000	103	90-110	03/20/2025
Sample ID:	**CCV2**						
TOC		mg/L	1050	1000	105	90-110	03/20/2025

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Initial and Continuing Calibration Blank Summary

Client:	Weston Solutions	**SDG No.:**	Q1548
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	**RunNo.:**	LB135101

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB1**							
TOC		mg/L	< 125.0000	125.0000	U	22.3	250	03/14/2025
Sample ID:	**CCB1**							
TOC		mg/L	< 125.0000	125.0000	U	22.3	250	03/20/2025
Sample ID:	**CCB2**							
TOC		mg/L	< 125.0000	125.0000	U	22.3	250	03/20/2025

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Preparation Blank Summary

Client: Weston Solutions **SDG No.:** Q1548

Project: Fort Meade MD Tipton Airfield Parcel RI - 0111169

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135101BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	28.9	250	03/20/2025

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Matrix Spike Summary

Client: Weston Solutions
SDG No.: Q1548
Project: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Sample ID: Q1548-02
Client ID: TAPLPR-SED13-031125-00-T2MS
Percent Solids for Spike Sample: 55.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	16300	OR	15500	OR	1000	1	80		03/20/2025

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Matrix Spike Summary

Client: Weston Solutions
SDG No.: Q1548
Project: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Sample ID: Q1548-02
Client ID: TAPLPR-SED13-031125-00-T2MSD
Percent Solids for Spike Sample: 55.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	16200	OR	15500	OR	1000	1	70	*	03/20/2025

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Duplicate Sample Summary

Client: Weston Solutions
SDG No.: Q1548
Project: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Sample ID: Q1548-01
Client ID: TAPLPR-SED12-031125-00-T2DUP
Percent Solids for Spike Sample: 84.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	6.29		6.30		1	0.16		03/13/2025

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Duplicate Sample Summary

Client: Weston Solutions
SDG No.: Q1548
Project: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Sample ID: Q1548-02
Client ID: TAPLPR-SED13-031125-00-T2MSD
Percent Solids for Spike Sample: 55.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	16300	OR	16200	OR	1	1		03/20/2025

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Laboratory Control Sample Summary

Client:	Weston Solutions	**SDG No.:**	Q1548
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	**Run No.:**	LB135101

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135101BSS								
TOC	mg/Kg	1000	1020		102	1	90-110	03/20/2025

RAW DATA

Reviewed By:Iwona
On:3/21/2025 10:59:24 AM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9045D
Analyst By : jignesh
Parameter: pH
Supervisor Review By : Iwona
Run Number: LB135014
Slope : 98.9
BalanceID: WC SC-7
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	03/13/2025	08:50
2	CAL2	1	Water	NA	NA	20.3	7.00	03/13/2025	08:51
3	CAL3	1	Water	NA	NA	20.3	10.02	03/13/2025	08:52
4	ICV	1	Water	NA	NA	20.3	7.01	03/13/2025	09:00
5	CCV1	1	Water	NA	NA	20.3	2.01	03/13/2025	09:03
6	Q1548-01	1	Solid	20.02	20	21.4	6.29	03/13/2025	09:14
7	Q1548-01DUP	1	Solid	20.03	20	21.5	6.30	03/13/2025	09:15
8	Q1548-02	1	Solid	20.02	20	21.3	5.63	03/13/2025	09:25
9	Q1548-03	1	Solid	20.03	20	20.6	4.57	03/13/2025	09:33
10	CCV2	1	Water	NA	NA	20.3	12.02	03/13/2025	09:35

WORKLIST(Hardcopy Internal Chain)

VB 135014

WorkList Name : PH Q1548 **WorkList ID :** 188248 **Department :** Wet-Chemistry **Date :** 03-13-2025 08:31:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1548-01	TAPLPR-SED12-031125-00-T2	Solid	pH	Cool 4 deg C	WEST04	I41	03/11/2025	9045D
Q1548-02	TAPLPR-SED13-031125-00-T2	Solid	pH	Cool 4 deg C	WEST04	I41	03/11/2025	9045D
Q1548-03	TAPIAL2-SED03-031125-00-T2	Solid	pH	Cool 4 deg C	WEST04	I41	03/11/2025	9045D

Date/Time 03/13/25 08:40

Raw Sample Received by: 2.0 deg C

Raw Sample Relinquished by:

Date/Time 03/13/25 1200

Raw Sample Received by:

Raw Sample Relinquished by: 2.0 deg C

Sample Results Report Print Date/Time: 2025/03/20 15:15:36

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1007.4494			TOC	
CCV1	1039.3689			TOC	
CCV1	1049.0052			TOC	
CCV1	1039.7059	..	...	TOC	..
CCB1	10.0367			TOC	
CCB1	12.0902			TOC	
CCB1	4.5249	..	...	TOC	..
CCB1	13.1210			TOC	
LB135101BLS	4.9301			TOC	
LB135101BLS	2.7500	..	...	TOC	..
LB135101BLS	5.1350			TOC	
LB135101BLS	34.6809			TOC	
LB135101BSS	1008.9326	..	...	TOC	..
LB135101BSS	1020.9035			TOC	
LB135101BSS	1031.1311			TOC	
LB135101BSS	1024.7065	..	...	TOC	..
Q1548-01	2596.6194			TOC	
Q1548-01	2004.9746			TOC	
Q1548-01	1837.6506	..	...	TOC	..
Q1548-01	1989.1025			TOC	
Q1548-02	12767.5088			TOC	
Q1548-02	16928.2461	..	...	TOC	..
Q1548-02	16558.3750			TOC	
Q1548-02	15648.8262			TOC	
Q1548-02MS	16942.6836	..	...	TOC	..
Q1548-02MS	19193.7090			TOC	
Q1548-02MS	15559.9746			TOC	
Q1548-02MS	13633.7109	..	...	TOC	..
Q1548-02MSD	14642.8398			TOC	
Q1548-02MSD	18273.2480			TOC	
Q1548-02MSD	15914.8223	..	...	TOC	..
Q1548-02MSD	15877.1895			TOC	
Q1548-03	12444.1621			TOC	
Q1548-03	11299.2402	..	...	TOC	..
Q1548-03	10686.1035			TOC	
Q1548-03	10487.8994			TOC	
CCV2	1135.1462	..	...	TOC	..
CCV2	987.5703			TOC	
CCV2	1070.3583			TOC	
CCV2	1025.3073	..	...	TOC	..
CCB2	11.1687			TOC	
CCB2	8.1280			TOC	
CCB2	4.9243	..	...	TOC	..
CCB2	5.4733			TOC	

Sample Results Report Print Date/Time: 2025/03/20 15:15:36

Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	Sample		2025/03/20 09:10	
Boat Sampler	Sample		2025/03/20 09:12	
Boat Sampler	Sample		2025/03/20 09:15	
Boat Sampler	...Sample	..	..2025/03/20 09:17	..
Boat Sampler	Sample		2025/03/20 09:25	Low Sample Detected
Boat Sampler	Sample		2025/03/20 09:28	Low Sample Detected
Boat Sampler	...Sample	..	..2025/03/20 09:33	..Low Sample Detected
Boat Sampler	Sample		2025/03/20 09:36	Low Sample Detected
Boat Sampler	Sample		2025/03/20 09:44	Low Sample Detected
Boat Sampler	...Sample	..	..2025/03/20 09:47	..Low Sample Detected
Boat Sampler	Sample		2025/03/20 09:50	Low Sample Detected
Boat Sampler	Sample		2025/03/20 09:52	
Boat Sampler	...Sample	..	..2025/03/20 09:56	..
Boat Sampler	Sample		2025/03/20 09:58	
Boat Sampler	Sample		2025/03/20 10:01	
Boat Sampler	...Sample	..	..2025/03/20 10:05	..
Boat Sampler	Sample		2025/03/20 10:23	
Boat Sampler	Sample		2025/03/20 10:27	
Boat Sampler	...Sample	..	..2025/03/20 10:31	..
Boat Sampler	Sample		2025/03/20 10:40	
Boat Sampler	Sample		2025/03/20 10:52	
Boat Sampler	...Sample	..	..2025/03/20 10:58	..
Boat Sampler	Sample		2025/03/20 11:02	
Boat Sampler	Sample		2025/03/20 11:08	
Boat Sampler	...Sample	..	..2025/03/20 11:14	..
Boat Sampler	Sample		2025/03/20 11:19	
Boat Sampler	Sample		2025/03/20 11:24	
Boat Sampler	...Sample	..	..2025/03/20 11:30	..
Boat Sampler	Sample		2025/03/20 12:04	
Boat Sampler	Sample		2025/03/20 12:14	
Boat Sampler	...Sample	..	..2025/03/20 12:19	..
Boat Sampler	Sample		2025/03/20 12:24	
Boat Sampler	Sample		2025/03/20 12:38	
Boat Sampler	...Sample	..	..2025/03/20 12:43	..
Boat Sampler	Sample		2025/03/20 12:47	
Boat Sampler	Sample		2025/03/20 12:51	
Boat Sampler	...Sample	..	..2025/03/20 13:30	..
Boat Sampler	Sample		2025/03/20 13:33	
Boat Sampler	Sample		2025/03/20 13:35	
Boat Sampler	...Sample	..	..2025/03/20 13:38	..
Boat Sampler	Sample		2025/03/20 13:40	
Boat Sampler	Sample		2025/03/20 13:44	Low Sample Detected
Boat Sampler	...Sample	..	..2025/03/20 13:47	..Low Sample Detected
Boat Sampler	Sample		2025/03/20 13:50	Low Sample Detected

Detailed Analysis Report Print Date/Time: 2025/03/20 15:15:51

Sample ID:	CCV1	Mode:	TOC
Method:	Boat Sampler	Filename:	03200908
Cal. Curve:	TOC SOIL	Timestamp:	2025/03/20 09:10
Operator ID:	NF IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1007.4494	40.2980	3038193	-3.500	-2.502	77

Sample ID:	CCV1	Mode:	TOC
Method:	Boat Sampler	Filename:	03200910
Cal. Curve:	TOC SOIL	Timestamp:	2025/03/20 09:12
Operator ID:	NF IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1039.3689	41.5748	3134453	-3.212	-2.218	74

Sample ID:	CCV1	Mode:	TOC
Method:	Boat Sampler	Filename:	03200913
Cal. Curve:	TOC SOIL	Timestamp:	2025/03/20 09:15
Operator ID:	NF IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1049.0052	41.9602	3163514	-3.141	-2.143	75

Sample ID:	CCV1	Mode:	TOC
Method:	Boat Sampler	Filename:	03200916
Cal. Curve:	TOC SOIL	Timestamp:	2025/03/20 09:17
Operator ID:	NF IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1039.7059	41.5882	3135470	-3.107	-2.111	74

Sample ID:	CCB1	Mode:	TOC
Method:	Boat Sampler	Filename:	03200922
Cal. Curve:	TOC SOIL	Timestamp:	2025/03/20 09:25
Operator ID:	NF IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0367	0.4015	30268	-3.245	-3.243	120

Last Message: Low Sample Detected

Sample ID:	CCB1	Mode:	TOC
Method:	Boat Sampler	Filename:	03200926
Cal. Curve:	TOC SOIL	Timestamp:	2025/03/20 09:28
Operator ID:	NF IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.0902	0.4836	36461	-3.217	-3.179	120

Last Message: Low Sample Detected
==========

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 03200931
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:33
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.5249	0.1810	13646	-3.163	-3.169	120

Last Message: Low Sample Detected
==========

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 03200934
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:36
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.1210	0.5248	39569	-3.160	-3.124	120

Last Message: Low Sample Detected
==========

Sample ID: LB135101BLS Mode: TOC
Method: Boat Sampler Filename: 03200941
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:44
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9301	0.1972	14868	-3.106	-3.183	120

Last Message: Low Sample Detected
==========

Sample ID: LB135101BLS Mode: TOC
Method: Boat Sampler Filename: 03200944
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.7500	0.1100	8293	-3.163	-3.214	120

Last Message: Low Sample Detected
==========

Sample ID: LB135101BLS Mode: TOC
Method: Boat Sampler Filename: 03200948
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.1350	0.2054	15486	-3.218	-3.216	120

Last Message: Low Sample Detected
==========

Sample ID: LB135101BLS Mode: TOC
Method: Boat Sampler Filename: 03200951
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:52
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34.6809	1.3872	104588	-3.206	-2.214	43

Sample ID: LB135101BSS Mode: TOC
Method: Boat Sampler Filename: 03200954
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:56
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.9326	40.3573	3042666	-3.262	-2.264	75

Sample ID: LB135101BSS Mode: TOC
Method: Boat Sampler Filename: 03200957
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 09:58
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1020.9035	40.8361	3078767	-3.051	-2.052	71

Sample ID: LB135101BSS Mode: TOC
Method: Boat Sampler Filename: 03200959
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:01
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1031.1311	41.2452	3109610	-3.120	-2.124	72

Sample ID: LB135101BSS Mode: TOC
Method: Boat Sampler Filename: 03201003
Ca
l. Curve: TOC SOIL Timestamp: 2025/03/20 10:05
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1024.7065	40.9883	3090236	-3.191	-2.197	72

Sample ID: Q1548-01 Mode: TOC
Method: Boat Sampler Filename: 03201021
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:23
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2596.6194	17.6570	1331218	-3.012	-2.014	67

Sample ID: Q1548-01 Mode: TOC
Method: Boat Sampler Filename: 03201025
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2004.9746	13.8343	1043014	-2.875	-1.881	64

Sample ID: Q1548-01 Mode: TOC
Method: Boat Sampler Filename: 03201029
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:31
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1837.6506	11.0259	831278	-2.839	-1.844	62

Sample ID: Q1548-01 Mode: TOC
Method: Boat Sampler Filename: 03201039
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:40
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1989.1025	11.5368	869796	-2.727	-1.728	72

Sample ID: Q1548-02 Mode: TOC
Method: Boat Sampler Filename: 03201050
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:52
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12767.5088	74.0516	5582982	0.892	1.890	78

Sample ID: Q1548-02 Mode: TOC
Method: Boat Sampler Filename: 03201054
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 10:58
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16928.2461	106.6480	8040529	-2.471	-1.473	146

Sample ID: Q1548-02 Mode: TOC
Method: Boat Sampler Filename: 03201059
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 11:02
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16558.3750	92.7269	6990976	-2.334	-1.335	156

Sample ID: Q1548-02 Mode: TOC

Method: Boat Sampler Filename: 03201105
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 11:08
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15648.8262	86.0685	6488982	-2.345	-1.345	152

Sample ID: Q1548-02MS Mode: TOC
Method: Boat Sampler Filename: 03201111
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 11:14
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16942.6836	94.8790	7153233	-2.266	-1.270	154

Sample ID: Q1548-02MS Mode: TOC
Method: Boat Sampler Filename: 03201116
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 11:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19193.7090	111.3235	8393034	-2.190	-1.190	150

Sample ID: Q1548-02MS Mode: TOC
Method: Boat Sampler Filename: 03201121
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 11:24
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15559.9746	90.2479	6804073	-2.214	-1.217	136

Sample ID: Q1548-02MS Mode: TOC
Method: Boat Sampler Filename: 03201128
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 11:30
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13633.7109	81.8023	6167333	-2.344	-1.347	120

Sample ID: Q1548-02MSD Mode: TOC
Method: Boat Sampler Filename: 03201202
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:04
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14642.8398	89.3213	6734219	-2.339	-1.340	137

Sample ID: Q1548-02MSD Mode: TOC
Method: Boat Sampler Filename: 03201211
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:14

Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18273.2480	104.1575	7852767	-2.181	-1.184	147

Sample ID: Q1548-02MSD Mode: TOC
Method: Boat Sampler Filename: 03201216
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15914.8223	90.7145	6839254	-2.271	-1.272	131

Sample ID: Q1548-02MSD Mode: TOC
Method: Boat Sampler Filename: 03201221
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:24
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15877.1895	93.6754	7062488	-2.227	-1.227	138

Sample ID: Q1548-03
Mode: TOC
Method: Boat Sampler Filename: 03201236
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:38
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12444.1621	68.4429	5160128	-2.206	-1.209	124

Sample ID: Q1548-03 Mode: TOC
Method: Boat Sampler Filename: 03201240
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11299.2402	71.1852	5366880	-2.181	-1.184	117

Sample ID: Q1548-03 Mode: TOC
Method: Boat Sampler Filename: 03201244
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10686.1035	67.3224	5075654	-2.140	-1.142	109

Sample ID: Q1548-03 Mode: TOC
Method: Boat Sampler Filename: 03201248
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 12:51
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10487.8994	62.9274	4744297	-2.153	-1.153	111

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 03201328
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:30
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1135.1462	45.4059	3423292	-2.532	-1.535	77

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 03201331
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:33
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	987.5703	39.5028	2978243	-2.580	-1.585	74

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 03201333
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:35
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1070.3583	42.8143	3227909	-2.497	-1.499	73

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 03201336
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:38
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1025.3073	41.0123	3092047	-2.533	-1.534	72

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 03201339
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:40
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.1687	0.4467	33682	-2.755	-1.758	36

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 03201341
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:44
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration

				Baseline	Baseline	Time
1	8.1280	0.3251	24512	-2.874	-2.905	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 03201344
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9243	0.1970	14850	-2.866	-2.950	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 03201348
Cal. Curve: TOC SOIL Timestamp: 2025/03/20 13:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.4733	0.2189	16506	-2.942	-3.024	120

Last Message: Low Sample Detected

Sample Results Report Print Date/Time: 2025/03/20 14:32:24

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	14955	8646	57.81	TOC	
250mg/l	841606	148828	17.68	TOC	
500mg/l	1649173	101330	6.14	TOC	
1000mg/l.....	3114148...	128870..	4.14...	TOC	..
2000mg/l	6084076	53153	0.87	TOC	
ICV	1008.1160			TOC	
ICV.....	1026.3085...	..	...	TOC	..
ICV	1034.6257			TOC	
ICV	1033.1101			TOC	
ICB.....	7.8958...	..	...	TOC	..
ICB	7.5463			TOC	
ICB	12.5615			TOC	
ICB.....	13.3053...	..	...	TOC	..

Sample Results Report Print Date/Time: 2025/03/20 14:32:24

Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	TOC Standard		2025/03/14 08:33	Low Sample Detected
Boat Sampler	TOC Standard		2025/03/14 08:43	
Boat Sampler	TOC Standard		2025/03/14 08:52	
Boat Sampler	...TOC Standard	..	..2025/03/14 09:02	..
Boat Sampler	TOC Standard		2025/03/14 09:13	
Boat Sampler	Sample		2025/03/14 09:32	
Boat Sampler	...Sample	..	..2025/03/14 09:34	..
Boat Sampler	Sample		2025/03/14 09:37	
Boat Sampler	Sample		2025/03/14 09:39	
Boat Sampler	...Sample	..	..2025/03/14 09:43	..Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:47	Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:50	
Boat Sampler	...Sample	..	..2025/03/14 09:54	..Low Sample Detected

Detailed Analysis Report Print Date/Time: 2025/03/20 14:32:39

Sample ID: BLANK Mode: TOC
Method: Boat Sampler Filename: 03140821
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 08:33
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			11961	-2.143	-2.169	120
2			6235	-2.069	-2.181	120
3			26756	-2.213	-2.270	120
4			14869	-2.247	-2.274	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 14955 Std Dev: 8646 RSD: 57.81

Sample ID: 250mg/l Mode: TOC
Method: Boat Sampler Filename: 03140835
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 08:43
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			866593	-2.250	-1.256	56
2			624632	-2.216	-1.228	56
3			924993	-2.076	-1.084	63
4			950204	-2.133	-1.138	58

<<<Statistics>>> Mean: 841606 Std Dev: 148828 RSD: 17.68

Sample ID: 500mg/l Mode: TOC
Method: Boat Sampler Filename: 03140844
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 08:52
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			1701336	-2.270	-1.274	63
2			1498076	-1.974	-0.985	58
3			1685267	-2.048	-1.053	61
4			1712014	-2.180	-1.187	63

<<<Statistics>>> Mean: 1649173 Std Dev: 101330 RSD: 6.14

Sample ID: 1000mg/l Mode: TOC
Method: Boat Sampler Filename: 03140853
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:02
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3164316	-2.307	-1.309	77
2			3160107	-2.094	-1.101	70
3			2923653	-1.949	-0.954	65
4			3208516	-2.004	-1.005	74

<<<Statistics>>> Mean: 3114148 Std Dev: 128870 RSD: 4.14

Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 03140903
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6076768	-2.111	-1.112	111
2			6011750	-1.590	-0.594	85
3			6120679	-1.745	-0.748	92
4			6127106	-1.924	-0.925	95

<<<Statistics>>> Mean: 6084076 Std Dev: 53153 RSD: 0.87

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140930
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:32
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.1160	40.3246	3040203	-2.708	-1.710	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140932
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1026.3085	41.0523	3095067	-2.463	-1.465	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140935
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.6257	41.3850	3120149	-2.458	-1.467	72

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140937
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1033.1101	41.3244	3115579	-2.438	-1.439	73

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140941
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.8958	0.3158	23812	-2.583	-2.673	120

Last Message: Low Sample Detected

Sample ID: ICB | Mode: TOC
Method: Boat Sampler | Filename: 03140944
Cal. Curve: TOC SOIL | Timestamp: 2025/03/14 09:47
Operator ID: NF IZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5463	0.3019	22758	-2.639	-2.694	120

Last Message: Low Sample Detected

Sample ID: ICB | Mode: TOC
Method: Boat Sampler | Filename: 03140949
Cal. Curve: TOC SOIL | Timestamp: 2025/03/14 09:50
Operator ID: NF IZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.5615	0.5025	37882	-2.737	-1.746	36

Sample ID: ICB | Mode: TOC
Method: Boat Sampler | Filename: 03140951
Cal. Curve: TOC SOIL | Timestamp: 2025/03/14 09:54
Operator ID: NF IZ | Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3053	0.5322	40125	-2.721	-2.705	120

Last Message: Low Sample Detected

Calibration Report Print Date/Time: 2025/03/20 14:35:28

1. Curve ID: TOC SOIL
eated: 2025/03/14 09:14
libration Factor (m): 7.539e+04
Intercept (b): 78996
squared: 0.99960

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Re Message	Date & Time
BLANK	14955	0.000	-0.849	—	2025/03/14 08:33
250mg/l	841606	10.000	10.115	1.5	2025/03/14 08:43
500mg/l	1649173	20.000	20.827	4.1	2025/03/14 08:52
1000mg/l	3114148	40.000	40.258	0.6	2025/03/14 09:02
2000mg/l	6084076	80.000	79.650	-0.4	2025/03/14 09:13

12
3/20/25

12
3/20/25

LB135101

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TOC S-03202025 **WorkList ID :** 188393 **Department :** Wet-Chemistry **Date :** 03-20-2025 08:21:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1548-01	TAPLPR-SED12-031125-00-T2	Solid	TOC	Cool 4 deg C	WEST04	I41	03/11/2025	9060A
Q1548-02	TAPLPR-SED13-031125-00-T2	Solid	TOC	Cool 4 deg C	WEST04	I41	03/11/2025	9060A
Q1548-03	TAPIAL2-SED03-031125-00-T2	Solid	TOC	Cool 4 deg C	WEST04	I41	03/11/2025	9060A

Date/Time 03.20.2025, 09:00
Raw Sample Received by: NFLWO
Raw Sample Relinquished by:

Date/Time 03.20.2025, 12:00
Raw Sample Received by:
Raw Sample Relinquished by: NFLWO

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Fax : 908 789 8922

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135014

Review By	jignesh	Review On	3/13/2025 8:56:18 AM
Supervise By	Iwona	Supervise On	3/21/2025 10:59:24 AM
SubDirectory	LB135014	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3107,W3093,W3094,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/13/25 08:50		Jignesh	OK
2	CAL2	CAL2	CAL	03/13/25 08:51		Jignesh	OK
3	CAL3	CAL3	CAL	03/13/25 08:52		Jignesh	OK
4	ICV	ICV	ICV	03/13/25 09:00		Jignesh	OK
5	CCV1	CCV1	CCV	03/13/25 09:03		Jignesh	OK
6	Q1548-01	TAPLPR-SED12-0311	SAM	03/13/25 09:14		Jignesh	OK
7	Q1548-01DUP	TAPLPR-SED12-0311	DUP	03/13/25 09:15		Jignesh	OK
8	Q1548-02	TAPLPR-SED13-0311	SAM	03/13/25 09:25		Jignesh	OK
9	Q1548-03	TAPIAL2-SED03-0311	SAM	03/13/25 09:33		Jignesh	OK
10	CCV2	CCV2	CCV	03/13/25 09:35		Jignesh	OK

Alliance TECHNICAL GROUP
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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135101

Review By	Niha	Review On	3/21/2025 8:27:57 AM
Supervise By	Iwona	Supervise On	3/21/2025 10:59:45 AM
SubDirectory	LB135101	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP112403,WP112404,WP112405,WP112406,WP112407
ICV Standard	WP112408
CCV Standard	WP112406
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112408
Chk Standard	WP109953

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	03/14/25 08:33		NF IZ	OK
2	250mg/l	250mg/l	CAL2	03/14/25 08:43		NF IZ	OK
3	500mg/l	500mg/l	CAL3	03/14/25 08:52		NF IZ	OK
4	1000mg/l	1000mg/l	CAL4	03/14/25 09:02		NF IZ	OK
5	2000mg/l	2000mg/l	CAL5	03/14/25 09:13		NF IZ	OK
6	ICV1	ICV1	ICV	03/14/25 09:39		NF IZ	OK
7	ICB1	ICB1	ICB	03/14/25 09:54		NF IZ	OK
8	CCV1	CCV1	CCV	03/20/25 09:17		NF IZ	OK
9	CCB1	CCB1	CCB	03/20/25 09:36		NF IZ	OK
10	LB135101BLS	LB135101BLS	MB	03/20/25 09:52		NF IZ	OK
11	LB135101BSS	LB135101BSS	LCS	03/20/25 10:05		NF IZ	OK
12	Q1548-01	TAPLPR-SED12-0311	SAM	03/20/25 10:40		NF IZ	OK
13	Q1548-02	TAPLPR-SED13-0311	SAM	03/20/25 11:08		NF IZ	OK
14	Q1548-02MS	TAPLPR-SED13-0311	MS	03/20/25 11:30	sample + 40ul of WP112406	NF IZ	OK
15	Q1548-02MSD	TAPLPR-SED13-0311	MSD	03/20/25 12:24	sample + 40ul of WP112406	NF IZ	OK
16	Q1548-03	TAPIAL2-SED03-0311	SAM	03/20/25 12:51		NF IZ	OK
17	CCV2	CCV2	CCV	03/20/25 13:38		NF IZ	OK
18	CCB2	CCB2	CCB	03/20/25 13:50		NF IZ	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1548

Test : Percent Solids,pH,TOC

Prepbatch ID :

Sequence ID/Qc Batch ID: LB135014,LB135101,

Standard ID :
WP109953,WP111436,WP111437,WP112403,WP112404,WP112405,WP112406,WP112407,WP112408,

Chemical ID :
W2784,W2860,W3071,W3072,W3093,W3094,W3107,W3112,W3161,W3169,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
613	Phosphoric acid reagent	WP109953	09/25/2024	03/25/2025	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 150.00000ml of W3112 + 50.00000ml of W2860 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2050	TOC STOCK STD, 4000PPM	WP111436	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/16/2025

FROM 5.00000ml of W2860 + 8.51200gram of W3169 + 990.00000ml of W3112 = 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
2051	TOC STOCK STD-SS, 4000PPM	WP111437	01/15/2025	06/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/16/2025

FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
304	TOC CAL 0.00ppm	WP112403	03/14/2025	03/21/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/20/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
712	TOC SOIL cal 250ppm	WP112404	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 1.00000ml of WP111436 = Final Quantity: 16.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
710	TOC SOIL cal 500ppm	WP112405	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025

FROM 14.00000ml of W3112 + 2.00000ml of WP111436 = Final Quantity: 16.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3544	TOC SOIL Cal- CCV 1000PPM	WP112406	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
713	TOC SOIL cal 2000ppm	WP112407	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 5.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 10.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2819	TOC ICV-LCSS, 1000PPM	WP112408	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111437 = 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 #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / lwona	W3071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / lwona	W3072

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094

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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.	AL14055-3 / PH 4 BUFFER SOLUTION	AL14055-3	02/27/2026	09/05/2024 / jignesh	05/13/2024 / jignesh	W3107

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.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / Iwona	01/03/2025 / Iwona	W3169

Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)

Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H_3PO_4) (by acidimetry)	85.0 - 87.0 %	85.8
Calcium (Ca)	<= 0.002 %	< 0.001
Color (APHA)	<= 10	5
Insoluble Matter	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.002 %	<0.002
Sulfate (SO_4)	<= 12 ppm	< 4
Volatile Acids (as CH_3COOH)	<= 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	<= 3 ppm	< 1
Nitrate (NO_3)	<= 5 ppm	< 2
Trace Impurities - Antimony (Sb)	<= 20.000 ppm	0.007
Trace Impurities - Arsenic (As)	<= 0.500 ppm	< 0.001
Trace Impurities - Iron (Fe)	<= 10.000 ppm	< 1.000
Heavy Metals (as Pb)	<= 8 ppm	< 3
Trace Impurities - Manganese (Mn)	<= 0.500 ppm	0.005
Trace Impurities - Potassium (K)	<= 40.000 ppm	< 0.001
Trace Impurities - Sodium (Na)	<= 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use
Exceeds A.C.S. Specifications
Meets Reagent Specifications for testing USP/NF monographs

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

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W3071
Rec 12/6/23

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4308H30 **Product Number:** 1551

Manufacture Date: AUG 09, 2023
Expiration Date: JUL 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (08/09/2023)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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W3072
Rec. 12/01/23
, 2

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2310P21 **Product Number:** 1615

Manufacture Date: OCT 24, 2023
Expiration Date: APR 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent

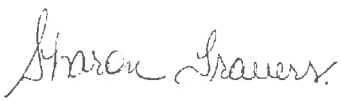
Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Sharon Travers (10/24/2023)
Operations Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE,ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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W3093 09412.. 04/03/2024 LG

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99 **Product Number:** 1551

Manufacture Date: JAN 08, 2024
Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (01/08/2024)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

RICCA CHEMICAL COMPANY®

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

W3094 78 opuz 04/03/2025

Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 4310G83 **Product Number:** 1601

Manufacture Date: OCT 09, 2023
Expiration Date: MAR 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result	
Appearance	Blue liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
Buffer C	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1601-16	500 mL natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (10/09/2023)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

RICCA CHEMICAL COMPANY®

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

W3107
38

Certificate of Analysis

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 4403F90 **Product Number:** 1501

Manufacture Date: MAR 09, 2024
Expiration Date: FEB 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.000	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1501-2.5	10 L Cubitainer®	24 months
1501-32	1 L natural poly	24 months
1501-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (03/09/2024)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

RICCA CHEMICAL COMPANY®
W3161 Rec. on 12/09/24 by IZ

1841 Broad Street
Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 **Product Number:** 1493

Manufacture Date: NOV 11, 2024
Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

Certificate of Analysis

Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature

We certify that this batch conforms to the specifications listed above.

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.

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 03/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 03/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134997

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
Q1546-03	MDL-SOIL-QT1-2025-01	1	1.00	1.00	2.00	2.00	100.0	
Q1546-04	MDL-SOIL-QT1-2025-02	2	1.00	1.00	2.00	2.00	100.0	
Q1546-05	MDL-MED-SOIL-QT1-2025-01	3	1.00	1.00	2.00	2.00	100.0	
Q1546-06	MDL-MED-SOIL-QT1-2025-02	4	1.00	1.00	2.00	2.00	100.0	
Q1547-01	OR-620-JB-COMP-01	5	1.15	9.55	10.7	9.57	88.2	
Q1547-02	OR-620-JB-VOC-01	6	1.14	9.76	10.9	9.28	83.4	
Q1547-03	OR-620-JB-01	7	1.18	9.64	10.82	9.62	87.6	
Q1547-04	OR-620-JB-02	8	1.16	9.91	11.07	10.14	90.6	
Q1547-06	OR-620-JB-COMP-02	9	1.16	10.14	11.3	9.57	82.9	
Q1547-07	OR-620-JB-VOC-02	10	1.15	10.32	11.47	9.65	82.4	
Q1547-08	OR-620-JB-03	11	1.12	10.10	11.22	9.75	85.4	
Q1547-09	OR-620-JB-04	12	1.15	9.84	10.99	9.55	85.4	
Q1548-01	TAPLPR-SED12-031125-00-T2	13	1.15	10.27	11.42	9.84	84.6	
Q1548-02	TAPLPR-SED13-031125-00-T2	14	1.19	9.70	10.89	6.57	55.5	
Q1548-03	TAPIAL2-SED03-031125-00-T2	15	1.17	10.33	11.5	8.61	72.0	
Q1549-01	72-11978	16	1.14	10.21	11.35	10.27	89.4	
Q1552-01	NB-418-JB-COMP	17	1.15	11.19	12.34	7.1	53.2	
Q1552-02	NB-418-JB-VOC-01	18	1.12	11.56	12.68	7.78	57.6	
Q1552-03	NB-418-JB-01	19	1.15	10.00	11.15	8.6	74.5	
Q1552-04	NB-418-JB-02	20	1.18	10.98	12.16	7.43	56.9	
Q1553-01	RT2321	43	1.14	10.03	11.17	9.5	83.3	
Q1553-02	RT2321	44	1.13	10.07	11.2	9.09	79.0	
Q1554-01	BC216531LOZ-1-1	21	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-02	BC216531LOZ-1-2	22	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-03	HEH673F-END-1-1	23	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-04	HEH673F-END-1-2	24	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 03/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 03/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134997

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
Q1554-05	BC226505LOZ-1-1	25	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-06	BC226505LOZ-1-2	26	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-07	BC226505LOZ-2-1	27	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-08	BC226505LOZ-2-2	28	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-09	BC122669LOK-1-1	29	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-10	BC122669LOK-1-2	30	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-11	KZZ1665-END-1-1	31	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-12	KZZ1665-END-1-2	32	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-13	KZZ1665-END-2-1	33	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-14	KZZ1665-END-2-2	34	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-15	BC760516LOZ-END-1-1	35	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-16	BC760516LOZ-END-1-2	36	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-17	BC107490LOK-END-1-1	37	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-18	BC107490LOK-END-1-2	38	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-19	BC107490LOK-END-2-1	39	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-20	BC107490LOK-END-2-2	40	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-21	HEI033P-1-1	41	1.00	1.00	2.00	2.00	100.0	pilc
Q1554-22	HEI033P-1-2	42	1.00	1.00	2.00	2.00	100.0	pilc
Q1556-01	OR-02-031225	45	1.15	10.16	11.31	10.42	91.2	
Q1556-02	OR-02-031225-E2	46	1.15	9.93	11.08	10.23	91.4	

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

WORKLIST(Hardcopy Internal Chain)

VB 134997

WorkList Name : %1-031225 **WorkList ID :** 188212 **Department :** Wet-Chemistry **Date :** 03-12-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1546-03	MDL-SOIL-QT1-2025-01	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	03/12/2025	Chemtech -SO
Q1546-04	MDL-SOIL-QT1-2025-02	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	03/12/2025	Chemtech -SO
Q1546-05	MDL-MED-SOIL-QT1-2025-01	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	03/12/2025	Chemtech -SO
Q1546-06	MDL-MED-SOIL-QT1-2025-02	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	03/12/2025	Chemtech -SO
Q1547-01	OR-620-JB-COMP-01	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	03/12/2025	Chemtech -SO
Q1547-02	OR-620-JB-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1547-03	OR-620-JB-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1547-04	OR-620-JB-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1547-06	OR-620-JB-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1547-07	OR-620-JB-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1547-08	OR-620-JB-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1547-09	OR-620-JB-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1548-01	TAPLPR-SED12-031125-00-T2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/11/2025	Chemtech -SO
Q1548-02	TAPLPR-SED13-031125-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	I41	03/11/2025	Chemtech -SO
Q1548-03	TAPIAL2-SED03-031125-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	I41	03/11/2025	Chemtech -SO
Q1549-01	72-11978	Solid	Percent Solids	Cool 4 deg C	WEST04	I41	03/11/2025	Chemtech -SO
Q1552-01	NB-418-JB-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	I41	03/12/2025	Chemtech -SO
Q1552-02	NB-418-JB-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/12/2025	Chemtech -SO
Q1552-03	NB-418-JB-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/12/2025	Chemtech -SO
Q1552-04	NB-418-JB-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/12/2025	Chemtech -SO
Q1553-01	RT2321	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/12/2025	Chemtech -SO

Date/Time 03/12/25 15:40

Raw Sample Received by: BCW

Raw Sample Relinquished by: SM

Date/Time 03/12/25 17:20

Raw Sample Received by: SM

Raw Sample Relinquished by: BCW

WORKLIST(Hardcopy Internal Chain)

VB 134997

WorkList Name : %1-031225 **WorkList ID :** 188212 **Department :** Wet-Chemistry **Date :** 03-12-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1553-02	RT2321	Solid	Percent Solids	Cool 4 deg C	PSEG03	I31	03/12/2025	Chemtech -SO
Q1554-01	BC216531LOZ-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-02	BC216531LOZ-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-03	HEH673F-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-04	HEH673F-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-05	BC226505LOZ-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-06	BC226505LOZ-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-07	BC226505LOZ-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-08	BC226505LOZ-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-09	BC122669LOK-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-10	BC122669LOK-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-11	KZZ1665-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-12	KZZ1665-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-13	KZZ1665-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-14	KZZ1665-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-15	BC760516LOZ-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-16	BC760516LOZ-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-17	BC107490LOK-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-18	BC107490LOK-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-19	BC107490LOK-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-20	BC107490LOK-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO

Date/Time 03/12/25 15:40

Raw Sample Received by: KP CW CJ

Raw Sample Relinquished by: CP SM

Date/Time 03/12/25 17:20

Raw Sample Received by: CP SM

Raw Sample Relinquished by: KP CW CJ

WORKLIST(Hardcopy Internal Chain)

B134997

WorkList Name : %1-031225 **WorkList ID :** 188212 **Department :** Wet-Chemistry **Date :** 03-12-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1554-21	HEI033P-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1554-22	HEI033P-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	03/12/2025	Chemtech -SO
Q1556-01	OR-02-031225	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/12/2025	Chemtech -SO
Q1556-02	OR-02-031225-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/12/2025	Chemtech -SO

Date/Time 03/12/25 15:40

Raw Sample Received by: WC

Raw Sample Relinquished by: SM

Date/Time 03/12/25 17:20

Raw Sample Received by: SM

Raw Sample Relinquished by: WC

SHIPPING DOCUMENTS

Q1548

Weston COC ID
Weston_20250311_1452

Chain of Custody Record/Lab Work Request

Page	1	of	1

WESTON SOLUTIONS

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	**Project POC:**	Nathan Fretz
PO Number	0111169	**Phone:**	484-524-5665
W.O. #:		**POC e-mail:**	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	**Lab POC:**	Jordan Hedvat
TAT (days):	21	**Lab Phone:**	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	Analyses Requested: pH by EPA 9045D and TOC by EPA 9060A	Special Instructions/Comments
	Container Type:							Glass	
	Container Size:							8 oz	
	Preservative:							Ice to 0 6 deg	
1	TAPLPR-SED12-031125-00-T2	g	SED	1	no	3/11/2025	12:05	X	
2	TAPLPR-SED13-031125-00-T2	g	SED	1	no	3/11/2025	12:55	X	
3	TAPIAL2-SED03-031125-00-T2	g	SED	1	no	3/11/2025	13:55	X	
4									
5									
6									
7									
8									
9									
10									
11									
12									

Shipping Airbill Number: 7726 4348 1050

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time
1.)	Olya Hoyt	3/11/25	1530	FedEx	~~3-12-25~~	~~9:25~~
2.)				Okem	3-12-25	9:25
3.)						

Additional Comments

QSM 6.0 Compliant

Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD

2.0° C IR Gun #1

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