

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : AE1-CTY 3.2.Z-PR-DOCK-DES-ODC - 60693795-1719206

AECOM

605 3rd Avenue

29th Floor

New York, NY - 10158

Phone No: 212-973-2900

ORDER ID : Q3419

ATTENTION : Rob Forstner



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3419

Project ID : AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client : AECOM

Lab Sample Number

Q3419-01
Q3419-02
Q3419-03
Q3419-04
Q3419-05

Client Sample Number

PR-132-S16-015094-20251021
PR-132-S16-015094-20251021MS
PR-132-S16-015094-20251021MSD
PR132-S16-119133-20251021
PR132-S16-094119-20251021

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: 11/1/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

AECOM

Project Name: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Project # N/A

Order ID # Q3419

Test Name: Hexavalent Chromium,TOC

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 10/21/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium,TOC. This data package contains results for Hexavalent Chromium,TOC.

C. Analytical Techniques:

The analysis of Hexavalent Chromium was based on method 7196A and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

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 Q3419-01, Q3419-04 and Q3419-05 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_____

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

ORDER ID: Q3419

MATRIX: Solid

METHOD: 7196A,Lloyd Kahn

	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 compounds. The Matrix Spike analysis met criteria for all compounds. The Matrix Spike Duplicate analysis met criteria for all compounds.			
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:

Lab has used least representable sample weight for the sample Q3419-01, Q3419-04 and Q3419-05 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3419

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 Custody

✓

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: 11/01/2025

LAB CHRONICLE

OrderID:	Q3419	OrderDate:	10/22/2025 11:01:00 AM
Client:	AECOM	Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Contact:	Rob Forstner	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3419-01	PR-132-S16-015094-2 0251021	SOIL			10/21/25 09:31	10/27/25	10/27/25 12:27	10/21/25
			Hexavalent Chromium	7196A				
			TOC	Lloyd Kahn			10/28/25 10:00	
Q3419-04	PR132-S16-119133-2 0251021	SOIL			10/21/25 09:35	10/27/25	10/27/25 12:29	10/21/25
			Hexavalent Chromium	7196A				
			TOC	Lloyd Kahn			10/28/25 11:49	
Q3419-05	PR132-S16-094119-2 0251021	SOIL			10/21/25 09:33	10/27/25	10/27/25 12:30	10/21/25
			Hexavalent Chromium	7196A				
			TOC	Lloyd Kahn			10/28/25 12:14	



SAMPLE DATA

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Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR-132-S16-015094-20251021
Lab Sample ID: Q3419-01

Date Collected: 10/21/25 09:31
Date Received: 10/21/25
SDG No.: Q3419
Matrix: SOIL
% Solid: 54.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.72	U	1	0.13	0.72	mg/Kg	10/27/25 09:00	10/27/25 12:27	7196A
TOC	20400	OR	1	43.4	250	mg/Kg		10/28/25 10:00	Lloyd Kahn

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

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S16-119133-20251021
Lab Sample ID: Q3419-04

Date Collected: 10/21/25 09:35
Date Received: 10/21/25
SDG No.: Q3419
Matrix: SOIL
% Solid: 51.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.75	U	1	0.13	0.75	mg/Kg	10/27/25 09:00	10/27/25 12:29	7196A
TOC	33700	OR	1	43.4	250	mg/Kg		10/28/25 11:49	Lloyd Kahn

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

Report of Analysis

Client: AECOM
Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Client Sample ID: PR132-S16-094119-20251021
Lab Sample ID: Q3419-05

Date Collected: 10/21/25 09:33
Date Received: 10/21/25
SDG No.: Q3419
Matrix: SOIL
% Solid: 46.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.84	U	1	0.15	0.84	mg/Kg	10/27/25 09:00	10/27/25 12:30	7196A
TOC	27500	OR	1	43.4	250	mg/Kg		10/28/25 12:14	Lloyd Kahn

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

- 1
- 2
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Initial and Continuing Calibration Verification

Client: AECOM

SDG No.: Q3419

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137657

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	10/27/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	10/27/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.489	0.5	98	90-110	10/27/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	10/27/2025
Sample ID: CCV4 Hexavalent Chromium	mg/L	0.489	0.5	98	90-110	10/27/2025

Initial and Continuing Calibration Verification

Client: AECOM

SDG No.: Q3419

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137664

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1080	1000	108	90-110	10/23/2025
Sample ID: CCV1 TOC	mg/L	998	1000	100	90-110	10/28/2025
Sample ID: CCV2 TOC	mg/L	1070	1000	107	90-110	10/28/2025
Sample ID: CCV3 TOC	mg/L	1000	1000	100	90-110	10/28/2025

Initial and Continuing Calibration Blank Summary

Client: AECOM

SDG No.: Q3419

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137657

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/27/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/27/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/27/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/27/2025
Sample ID: CCB4 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	10/27/2025

Initial and Continuing Calibration Blank Summary

Client: AECOM

SDG No.: Q3419

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

RunNo.: LB137664

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/23/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/28/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/28/2025
Sample ID: CCB3 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/28/2025

Preparation Blank Summary

Client: AECOM

SDG No.: Q3419

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137664BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	43.4	250	10/28/2025
Sample ID: PB170253BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	10/27/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021MS	Percent Solids for Spike Sample:	54.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	2300		0.13	U	2360	40	98		10/27/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021MS	Percent Solids for Spike Sample:	54.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	69.5		0.13	U	73.5	2	95		10/27/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021MS	Percent Solids for Spike Sample:	54.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	59.7		0.13	U	73.5	2	81		10/27/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021MS	Percent Solids for Spike Sample:	54.4

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	21300	OR	20400	OR	1000	1	90		10/28/2025

Matrix Spike Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-171	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021MSD	Percent Solids for Spike Sample:	54.4

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	21300	OR	20400	OR	1000	1	90		10/28/2025

Duplicate Sample Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021DUP	Percent Solids for Spike Sample:	54.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.13	U	0.13	U	1	0		10/27/2025

Duplicate Sample Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Sample ID:	Q3419-01
Client ID:	PR-132-S16-015094-20251021MSD	Percent Solids for Spike Sample:	54.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	21300	OR	21300	OR	1	0		10/28/2025

Laboratory Control Sample Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Run No.:	LB137664

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137664BSS							
TOC	mg/Kg	1000	1030		103	1	90-110	10/28/2025

Laboratory Control Sample Summary

Client:	AECOM	SDG No.:	Q3419
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Run No.:	LB137657

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB170253BS								
Hexavalent Chromium	mg/Kg	20	19.8		99	1	84-110	10/27/2025



RAW DATA

- 1
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- 11
- 12
- 13
- 14

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB137657

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP115295
5N sulfuric acid	WP115340
HNO3 Hex-Chrome, 5M	WP115339
Hexchrome Cleaning Solution	WP114310

Intercept: 0.0009

Slope: 0.7632

Regression: 0.999943

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HNO3	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.42	1.88	0.000	0.000	0.000	-0.00		10/27/2025	12:20
2	CAL2	0.01	1	100	100	7.48	2.06	0.000	0.009	0.009	0.010	0	10/27/2025	12:20
3	CAL3	0.025	1	100	100	7.51	1.95	0.000	0.021	0.021	0.026	4	10/27/2025	12:21
4	CAL4	0.05	1	100	100	7.44	1.92	0.000	0.040	0.040	0.051	2	10/27/2025	12:21
5	CAL5	0.1	1	100	100	7.54	2.04	0.000	0.079	0.079	0.102	2	10/27/2025	12:22
6	CAL6	0.5	1	100	100	7.55	1.99	0.000	0.376	0.376	0.491	-1.8	10/27/2025	12:22
7	CAL7	1	1	100	100	7.45	2.00	0.000	0.767	0.767	1.003	0.3	10/27/2025	12:23

Analytical Summary Report

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB137657

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.39	2.04	0.000	0.380	0.380	0.497	10/27/2025	12:23
2	ICB		1	100	100	7.35	1.80	0.000	0.001	0.001	0.000	10/27/2025	12:24
3	CCV1	0.5	1	100	100	7.44	1.87	0.000	0.378	0.378	0.494	10/27/2025	12:24
4	CCB1		1	100	100	7.42	1.95	0.000	0.000	0.000	-0.001	10/27/2025	12:25
5	RL Check	0.01	1	100	100	7.44	1.98	0.000	0.010	0.010	0.012	10/27/2025	12:25
6	PB170253BL		1	2.50	100	7.47	2.02	0.000	0.000	0.000	-0.001	10/27/2025	12:26
7	PB170253BS	20	1	2.50	100	7.52	1.90	0.000	0.378	0.378	0.494	10/27/2025	12:26
8	Q3419-01		1	2.56	100	7.42	2.10	0.000	0.001	0.001	0.000	10/27/2025	12:27
9	Q3419-01DU		1	2.57	100	7.46	2.14	0.000	0.001	0.001	0.000	10/27/2025	12:27
10	Q3419-01MS	40	2	2.57	100	7.40	2.11	0.000	0.319	0.319	0.417	10/27/2025	12:28
11	Q3419-01MS	1284	40	2.55	100	7.45	2.07	0.000	0.609	0.609	0.797	10/27/2025	12:28
12	Q3419-01MS	40	2	2.56	100	7.44	2.15	0.000	0.370	0.370	0.484	10/27/2025	12:29
13	Q3419-04		1	2.57	100	7.52	2.02	0.008	0.009	0.001	0.000	10/27/2025	12:29
14	Q3419-05		1	2.55	100	7.36	2.18	0.010	0.010	0.000	-0.001	10/27/2025	12:30
15	Q3439-01		1	2.52	100	7.52	1.94	0.000	0.000	0.000	-0.001	10/27/2025	12:30
16	CCV2	0.5	1	100	100	7.53	2.07	0.000	0.374	0.374	0.489	10/27/2025	12:31
17	CCB2		1	100	100	7.50	1.79	0.000	0.000	0.000	-0.001	10/27/2025	12:31
18	Q3439-05		1	2.53	100	7.39	2.10	0.000	0.001	0.001	0.000	10/27/2025	12:32
19	Q3440-01		1	2.55	100	7.31	2.14	0.007	0.010	0.003	0.003	10/27/2025	12:32
20	Q3445-01		1	2.57	100	7.36	1.88	0.011	0.014	0.003	0.003	10/27/2025	12:33
21	Q3449-01		1	2.54	100	7.40	1.94	0.037	0.038	0.001	0.000	10/27/2025	12:33
22	Q3451-01		1	2.56	100	7.54	2.27	0.002	0.002	0.000	-0.001	10/27/2025	12:34
23	Q3451-05		1	2.51	100	7.52	2.06	0.000	0.001	0.001	0.000	10/27/2025	12:34
24	Q3452-01		1	2.55	100	7.59	1.88	0.032	0.032	0.000	-0.001	10/27/2025	12:35
25	Q3457-01		1	2.53	100	7.64	2.00	0.010	0.010	0.000	-0.001	10/27/2025	12:35
26	Q3460-01		1	2.55	100	7.60	2.09	0.003	0.004	0.001	0.000	10/27/2025	12:36
27	Q3460-05		1	2.52	100	7.54	1.90	0.000	0.001	0.001	0.000	10/27/2025	12:36
28	CCV3	0.5	1	100	100	7.49	1.92	0.000	0.377	0.377	0.493	10/27/2025	12:37
29	CCB3		1	100	100	7.31	1.94	0.000	0.000	0.000	-0.001	10/27/2025	12:37
30	Q3460-09		1	2.58	100	7.60	1.93	0.000	0.000	0.000	-0.001	10/27/2025	12:38
31	Q3460-13		1	2.56	100	7.57	1.99	0.000	0.001	0.001	0.000	10/27/2025	12:38
32	Q3460-17		1	2.55	100	7.55	1.89	0.000	0.001	0.001	0.000	10/27/2025	12:39
33	Q3466-02		1	2.54	100	7.51	2.19	0.011	0.014	0.003	0.003	10/27/2025	12:39
34	Q3466-05		1	2.53	100	7.36	2.22	0.008	0.012	0.004	0.004	10/27/2025	12:40
35	Q3466-07		1	2.54	100	7.42	1.77	0.000	0.000	0.000	-0.001	10/27/2025	12:40
36	CCV4	0.5	1	100	100	7.40	2.07	0.000	0.374	0.374	0.489	10/27/2025	12:41
37	CCB4		1	100	100	7.49	2.01	0.000	0.001	0.001	0.000	10/27/2025	12:41

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1004.3774			TOC	
CCV1	995.1395			TOC	
CCV1	1025.7665			TOC	
CCV1.....	967.5188...	..	...	TOC	..
CCB1	8.7512			TOC	
CCB1	3.1407			TOC	
CCB1.....	9.5343...	..	...	TOC	..
CCB1	3.8079			TOC	
LB137664BLS	5.1549			TOC	
LB137664BLS.....	4.9583...	..	...	TOC	..
LB137664BLS	7.1848			TOC	
LB137664BLS	4.3757			TOC	
LB137664BSS.....	1010.1246...	..	...	TOC	..
LB137664BSS	1008.3992			TOC	
LB137664BSS	1028.3994			TOC	
LB137664BSS.....	1067.8593...	..	...	TOC	..
Q3419-01	23724.1348			TOC	
Q3419-01	19554.6211			TOC	
Q3419-01.....	20858.7402...	..	...	TOC	..
Q3419-01	17509.3652			TOC	
Q3419-02MS	18758.5195			TOC	
Q3419-02MS.....	20756.0352...	..	...	TOC	..
Q3419-02MS	25580.6406			TOC	
Q3419-02MS	20083.3535			TOC	
Q3419-03MSD.....	21383.3066...	..	...	TOC	..
Q3419-03MSD	23381.6094			TOC	
Q3419-03MSD	20117.4922			TOC	
Q3419-03MSD.....	20516.5156...	..	...	TOC	..
Q3419-04	35579.4297			TOC	
Q3419-04	34764.0391			TOC	
Q3419-04.....	31074.6914...	..	...	TOC	..
Q3419-04	33200.4102			TOC	
Q3419-05	29411.1758			TOC	
Q3419-05.....	24689.2949...	..	...	TOC	..
Q3419-05	27260.9355			TOC	
Q3419-05	28461.5195			TOC	
Q3422-01.....	31569.1895...	..	...	TOC	..
Q3422-01	27462.9766			TOC	
Q3422-01	30489.5078			TOC	
Q3422-01.....	34251.7461...	..	...	TOC	..
Q3424-01	27630.7949			TOC	
Q3424-01	30519.1426			TOC	
Q3424-01.....	29247.7363...	..	...	TOC	..
Q3424-01	25646.8438			TOC	
Q3424-02	30520.6699			TOC	
Q3424-02.....	30097.0742...	..	...	TOC	..
Q3424-02	27399.9512			TOC	
Q3424-02	27113.1523			TOC	
CCV2.....	1082.5403...	..	...	TOC	..
CCV2	1065.7521			TOC	
CCV2	1057.0588			TOC	
CCV2.....	1068.7130...	..	...	TOC	..
CCB2	16.1528			TOC	
CCB2	2.1934			TOC	
CCB2.....	4.0474...	..	...	TOC	..
CCB2	3.9542			TOC	
Q3424-03	33670.6094			TOC	
Q3424-03.....	35197.4258...	..	...	TOC	..
Q3424-03	34262.2656			TOC	
Q3424-03	29264.2129			TOC	
CCV3.....	959.3599...	..	...	TOC	..
CCV3	1018.5744			TOC	
CCV3	1025.0496			TOC	
CCV3.....	1000.8299...	..	...	TOC	..

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CCB3	4.5199		TOC	
CCB3	6.7933		TOC	
CCB3.....	13.3502...	..	...TOC	..
CCB3	24.9739		TOC	

Reviewed By:Iwona
On:10/31/2025 4:41:37
PM
Inst Id :Appolo-9000
LB :LB137664

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Method ID		Sample Type	Vial Timestamp		Message	
Boat Sampler		Sample	2025/10/28	08:50		
Boat Sampler		Sample	2025/10/28	08:52		
Boat Sampler		Sample	2025/10/28	08:56		
Boat Sampler	...	Sample	..	..2025/10/28 09:00	..	1
Boat Sampler		Sample	2025/10/28	09:07	Low Sample Detected	2
Boat Sampler		Sample	2025/10/28	09:10	Low Sample Detected	
Boat Sampler	...	Sample	..	..2025/10/28 09:13	..Low Sample Detected	3
Boat Sampler		Sample	2025/10/28	09:17	Low Sample Detected	
Boat Sampler		Sample	2025/10/28	09:20	Low Sample Detected	4
Boat Sampler	...	Sample	..	..2025/10/28 09:23	..Low Sample Detected	
Boat Sampler		Sample	2025/10/28	09:26	Low Sample Detected	5
Boat Sampler		Sample	2025/10/28	09:30	Low Sample Detected	
Boat Sampler	...	Sample	..	..2025/10/28 09:32	..	6
Boat Sampler		Sample	2025/10/28	09:34		
Boat Sampler		Sample	2025/10/28	09:36		7
Boat Sampler	...	Sample	..	..2025/10/28 09:38	..	8
Boat Sampler		Sample	2025/10/28	09:44		
Boat Sampler		Sample	2025/10/28	09:47		9
Boat Sampler	...	Sample	..	..2025/10/28 09:56	..	
Boat Sampler		Sample	2025/10/28	10:00		10
Boat Sampler		Sample	2025/10/28	10:10		
Boat Sampler	...	Sample	..	..2025/10/28 10:21	..	11
Boat Sampler		Sample	2025/10/28	10:26		
Boat Sampler		Sample	2025/10/28	10:44		12
Boat Sampler	...	Sample	..	..2025/10/28 10:51	..	
Boat Sampler		Sample	2025/10/28	10:56		13
Boat Sampler		Sample	2025/10/28	11:03		
Boat Sampler	...	Sample	..	..2025/10/28 11:09	..	14
Boat Sampler		Sample	2025/10/28	11:27	Max Integration Time Reached	
Boat Sampler		Sample	2025/10/28	11:33	Max Integration Time Reached	
Boat Sampler	...	Sample	..	..2025/10/28 11:37	..	
Boat Sampler		Sample	2025/10/28	11:49	Max Integration Time Reached	
Boat Sampler		Sample	2025/10/28	11:54	Max Integration Time Reached	
Boat Sampler	...	Sample	..	..2025/10/28 12:05	..	
Boat Sampler		Sample	2025/10/28	12:09		
Boat Sampler		Sample	2025/10/28	12:14		
Boat Sampler	...	Sample	..	..2025/10/28 12:21	..	
Boat Sampler		Sample	2025/10/28	12:24		
Boat Sampler		Sample	2025/10/28	12:28		
Boat Sampler	...	Sample	..	..2025/10/28 12:31	..	
Boat Sampler		Sample	2025/10/28	12:37		
Boat Sampler		Sample	2025/10/28	12:42		
Boat Sampler	...	Sample	..	..2025/10/28 12:47	..	
Boat Sampler		Sample	2025/10/28	12:51		
Boat Sampler		Sample	2025/10/28	12:57	Max Integration Time Reached	
Boat Sampler	...	Sample	..	..2025/10/28 13:01	..	
Boat Sampler		Sample	2025/10/28	13:04		
Boat Sampler		Sample	2025/10/28	13:09		
Boat Sampler	...	Sample	..	..2025/10/28 13:30	..	
Boat Sampler		Sample	2025/10/28	13:39		
Boat Sampler		Sample	2025/10/28	13:41		
Boat Sampler	...	Sample	..	..2025/10/28 13:43	..	
Boat Sampler		Sample	2025/10/28	13:48		
Boat Sampler		Sample	2025/10/28	13:55	Low Sample Detected	
Boat Sampler	...	Sample	..	..2025/10/28 13:58	..Low Sample Detected	
Boat Sampler		Sample	2025/10/28	14:01	Low Sample Detected	
Boat Sampler	Sample		2025/10/28	14:06	Max Integration Time Reached	
Boat Sampler	...	Sample	..	..2025/10/28 14:21	..Max Integration Time Reached	
Boat Sampler		Sample	2025/10/28	14:25		
Boat Sampler		Sample	2025/10/28	14:30		
Boat Sampler	...	Sample	..	..2025/10/28 14:40	..	
Boat Sampler		Sample	2025/10/28	14:47		
Boat Sampler		Sample	2025/10/28	15:25		

Boat Sampler	...	Sample	..	..	2025/10/28 15:48	..	Reviewed By:Iwona On:10/31/2025 4:41:37 PM Inst Id :Appolo-9000 LB :LB137664		
Boat Sampler		Sample			2025/10/28 15:52	..			
Boat Sampler		Sample			2025/10/28 15:55	Low Sample Detected			
Boat Sampler	...	Sample	..	..	2025/10/28 15:58	Low Sample Detected			
Boat Sampler		Sample			2025/10/28 16:02	..Low Sample Detected			

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Last Message: Low Sample Detected
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Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 10280911
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:13
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.5343	0.3814	26915	-0.371	-0.374	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 10280914
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:17
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8079	0.1523	10750	-0.405	-0.425	120

Last Message: Low Sample Detected
=====

Sample ID: LB137664BLS Mode: TOC
Method: Boat Sampler Filename: 10280917
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:20
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.1549	0.2062	14552	-0.433	-0.426	120

Last Message: Low Sample Detected
=====

Sample ID: LB137664BLS Mode: TOC
Method: Boat Sampler Filename: 10280921
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9583	0.1983	13997	-0.380	-0.466	120

Last Message: Low Sample Detected
=====

Sample ID: LB137664BLS Mode: TOC
Method: Boat Sampler Filename: 10280924
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.1848	0.2874	20283	-0.351	-0.473	120

Last Message: Low Sample Detected
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Sample ID: LB137664BLS Mode: TOC
Method: Boat Sampler Filename: 10280927
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:30
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.3757	0.1750	12353	-0.405	-0.490	120

Last Message: Low Sample Detected
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Sample ID: LB137664BSS Mode: TOC
Method: Boat Sampler Filename: 10280930
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:32
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1010.1246	40.4050	2851583	-0.492	0.505	66

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Sample ID: LB137664BSS Mode: TOC
Method: Boat Sampler Filename: 10280932
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:34
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.3992	40.3360	2846712	0.261	1.253	57

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Sample ID: LB137664BSS Mode: TOC
Method: Boat Sampler Filename: 10280935
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:36
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1028.3994	41.1360	2903173	0.047	1.046	62

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Sample ID: LB137664BS Mode: TOC
S
Method: Boat Sampler Filename: 10280937
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:38
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1067.8593	42.7144	3014568	-0.049	0.950	63

=====

Sample ID: Q3419-01 Mode: TOC
Method: Boat Sampler Filename: 10280940
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:44
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23724.1348	123.3655	8706523	6.842	7.820	149

Sample ID: Q3419-01 Mode: TOC
Method: Boat Sampler Filename: 10280944
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:47
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19554.6211	107.5504	7590373	3.080	4.078	140

Sample ID: Q3419-01 Mode: TOC
Method: Boat Sampler Filename: 10280952
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 09:56
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20858.7402	118.8948	8391005	-0.056	0.942	219

Sample ID: Q3419-01 Mode: TOC
Method: Boat Sampler Filename: 10280957
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:00
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17509.3652	105.0562	7414343	2.222	3.221	168

Sample ID: Q3419-02MS Mode: TOC
Method: Boat Sampler Filename: 10281008
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:10
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18758.5195	106.9236	7546133	4.156	5.146	103

Sample ID: Q3419-02MS Mode: TOC
Method: Boat Sampler Filename: 10281018
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:21
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20756.0352	112.0826	7910231	3.883	4.879	132

Sample ID: Q3419-02MS Mode: TOC
Method: Boat Sampler Filename: 10281023
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:26
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25580.6406	135.5774	9568378	2.767	3.755	162

Sample ID: Q3419-02MS Mode: TOC
Method: Boat Sampler Filename: 10281041
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:44
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20083.3535	106.4418	7512131	7.573	8.564	115

Sample ID: Q3419-03MSD Mode: TOC
Method: Boat Sampler Filename: 10281049
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:51
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	21383.3066	119.7465	8451113	4.900	5.898	97

Sample ID: Q3419-03MSD Mode: TOC
Method: Boat Sampler Filename: 10281052
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 10:56
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23381.6094	130.9370	9240883	8.992	9.990	149

Sample ID: Q3419-03MSD Mode: TOC
Method: Boat Sampler Filename: 10281100
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:03
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20117.4922	110.6462	7808859	12.476	13.445	93

Sample ID: Q3419-03MSD Mode: TOC
Method: Boat Sampler Filename: 10281106
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:09
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20516.5156	114.8925	8108540	5.982	6.975	138

Sample ID: Q3419-04 Mode: TOC
Method: Boat Sampler Filename: 10281122
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:27
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	35579.4297	192.1289	13559503	0.269	3.448	240

Last Message: Max Integration Time Reached

Sample ID: Q3419-04 Mode: TOC
Method: Boat Sampler Filename: 10281129
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:33
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34764.0391	201.6314	14230143	1.013	3.573	240

Last Message: Max Integration Time Reached
=====

Sample ID: Q3419-04 Mode: TOC
Method: Boat Sampler Filename: 10281134
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:37
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31074.6914	180.2332	12719963	5.089	6.081	150

=====

Sample ID: Q3419-04 Mode: TOC
Method: Boat Sampler Filename: 10281144
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:49
Operator ID: RM IZ
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33200.4102	195.8824	13824406	0.146	2.908	240

Last Message: Max Integration Time Reached
=====

Sample ID: Q3419-05 Mode: TOC
Method: Boat Sampler Filename: 10281150
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 11:54
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29411.1758	155.8792	11001181	0.608	1.624	240

Last Message: Max Integration Time Reached
=====

Sample ID: Q3419-05 Mode: TOC
Method: Boat Sampler Filename: 10281202
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 12:05
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24689.2949	135.7911	9583462	15.679	16.675	111

=====

Sample ID: Q3419-05 Mode: TOC
Method: Boat Sampler Filename: 10281206
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 12:09
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27260.9355	147.2091	10389282	5.211	6.209	141

Sample ID: Q3419-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281210
Timestamp: 2025/10/28 12:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28461.5195	150.8461	10645964	2.370	3.365	207

Sample ID: Q3422-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281217
Timestamp: 2025/10/28 12:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31569.1895	176.7875	12476779	1.120	2.119	200

Sample ID: Q3422-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281222
Timestamp: 2025/10/28 12:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	27462.9766	153.7927	10853921	15.013	16.006	92

Sample ID: Q3422-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281225
Timestamp: 2025/10/28 12:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30489.5078	173.7902	12265247	7.422	8.422	138

Sample ID: Q3422-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281229
Timestamp: 2025/10/28 12:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34251.7461	184.9594	13053516	8.093	9.076	136

Sample ID: Q3424-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281233
Timestamp: 2025/10/28 12:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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1	27630.7949	151.9694	10725242	2.111	3.107	162
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Sample ID:	Q3424-01	Mode:	TOC
Method:	Boat Sampler	Filename:	10281237
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 12:42
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30519.1426	161.7515	11415613	2.732	3.727	231
=====						

Sample ID:	Q3424-01	Mode:	TOC
Method:	Boat Sampler	Filename:	10281243
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 12:47
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29247.7363	163.7873	11559294	0.040	1.037	230
=====						

Sample ID:	Q3424-01	Mode:	TOC
Method:	Boat Sampler	Filename:	10281248
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 12:51
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25646.8438	146.1870	10317152	1.136	2.131	173
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Sample ID:	Q3424-02	Mode:	TOC
Method:	Boat Sampler	Filename:	10281253
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 12:57
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30520.6699	173.9678	12277783	0.097	1.144	241

Last Message: Max Integration Time Reached

Sample ID:	Q3424-02	Mode:	TOC
Method:	Boat Sampler	Filename:	10281258
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:01
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30097.0742	159.5145	11257739	9.157	10.154	149
=====						

Sample ID:	Q3424-02	Mode:	TOC
Method:	Boat Sampler	Filename:	10281302
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:04
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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1	27399.9512	142.4797	10055511	12.738	13.716	110
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Sample ID:	Q3424-02	Mode:	TOC
Method:	Boat Sampler	Filename:	10281305
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:09
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
			Baseline	Baseline	Time	
1	27113.1523	143.6997	10141610	1.395	2.393	178

Sample ID:	CCV2	Mode:	TOC
Method:	Boat Sampler	Filename:	10281329
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:30
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
				Baseline	Baseline	Time
1	1082.5403	43.3016	3056012	10.098	10.988	59

Sample ID:	CCV2	Mode:	TOC
Method:	Boat Sampler	Filename:	10281337
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:39
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
				Baseline	Baseline	Time
1	1065.7521	42.6301	3008619	0.231	1.223	68

Sample ID:	CCV2	Mode:	TOC
Method:	Boat Sampler	Filename:	10281339
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:41
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
				Baseline	Baseline	Time
1	1057.0588	42.2824	2984078	0.591	1.586	64

Sample ID:	CCV2	Mode:	TOC
Method:	Boat Sampler	Filename:	10281342
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:43
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
				Baseline	Baseline	Time
1	1068.7130	42.7485	3016978	0.266	1.262	67

Sample ID:	CCB2	Mode:	TOC
Method:	Boat Sampler	Filename:	10281347
Cal. Curve:	TOC SOIL	Timestamp:	2025/10/28 13:48
Operator ID:	RM IZ	Sample Type:	Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
				Baseline	Baseline	Time
1	16.1528	0.6461	45599	-0.180	0.814	34

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 10281352
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 13:55
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1934	0.0877	6192	-0.299	-0.480	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 10281355
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 13:58
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.0474	0.1619	11426	-0.414	-0.465	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 10281358
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:01
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9542	0.1582	11163	-0.432	-0.502	120

Last Message: Low Sample Detected

Sample ID: Q3424-03 Mode: TOC
Method: Boat Sampler Filename: 10281402
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:06
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33670.6094	185.1883	13069672	-0.277	3.122	240

Last Message: Max Integration Time Reached

Sample ID: Q3424-03 Mode: TOC
Method: Boat Sampler Filename: 10281417
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:21
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	35197.4258	190.0661	13413920	5.585	9.058	240

Last Message: Max Integration Time Reached

Sample ID: Q3424-03 Mode: TOC
Method: Boat Sampler Filename: 10281422
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:25
Operator ID: RM IZ Sample Type: Sample

Reviewed By:Iwona
On:10/31/2025 4:41:37
PM
Inst Id :Appolo-9000
LB :LB137664

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34262.2656	185.0162	13057525	5.021	6.014	158

Sample ID: Q3424-03 Mode: TOC
Method: Boat Sampler Filename: 10281426
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:30
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29264.2129	158.0267	11152741	4.519	5.514	192

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10281438
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:40
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	959.3599	38.3744	2708274	-0.455	0.542	68

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10281446
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 14:47
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1018.5744	40.7430	2875436	1.852	2.827	52

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10281523
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 15:25
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1025.0496	41.0020	2893716	0.151	1.148	70

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 10281546
Cal. Curve: TOC SOIL Timestamp: 2025/10/28 15:48
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1000.8299	40.0332	2825344	1.063	2.062	64

Sample ID: CCB3 Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Filename: 10281549
Timestamp: 2025/10/28 15:52
Sample Type: Sample

Reviewed By:Iwona
On:10/31/2025 4:41:37 PM
Inst Id :Appolo-9000
LB :LB137664

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.5199	0.1808	12760	0.243	-0.103	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281552
Timestamp: 2025/10/28 15:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.7933	0.2717	19178	-0.088	-0.233	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281556
Timestamp: 2025/10/28 15:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3502	0.5340	37688	-0.242	-0.317	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: RM IZ

Mode: TOC
Filename: 10281601
Timestamp: 2025/10/28 16:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24.9739	0.9990	70501	-0.106	0.877	30

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	31950	15426	48.28	TOC	
250mg/l	849893	50108	5.90	TOC	
500mg/l	1675519	64965	3.88	TOC	
1000mg/l.....	3173298...	28597..	0.90...	TOC	..
2000mg/l	5705574	120319	2.11	TOC	
ICV	1077.7419			TOC	
ICV.....	1072.2174...	..	...	TOC	..
ICV	1063.5485			TOC	
ICV	1089.7552			TOC	
ICB.....	10.0600...	..	...	TOC	..
ICB	20.6062			TOC	
ICB	9.7098			TOC	
ICB.....	2.1047...	..	...	TOC	..

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Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	TOC Standard		2025/10/23 11:57	Low Sample Detected
Boat Sampler	TOC Standard		2025/10/23 12:04	
Boat Sampler	TOC Standard		2025/10/23 12:12	
Boat Sampler	...TOC Standard	..	..2025/10/23 12:21	..
Boat Sampler	TOC Standard		2025/10/23 12:31	
Boat Sampler	Sample		2025/10/23 12:40	
Boat Sampler	...Sample	..	..2025/10/23 12:42	..
Boat Sampler	Sample		2025/10/23 12:44	
Boat Sampler	Sample		2025/10/23 12:50	
Boat Sampler	...Sample	..	..2025/10/23 13:14	..Low Sample Detected
Boat Sampler	Sample		2025/10/23 13:16	
Boat Sampler	Sample		2025/10/23 13:19	Low Sample Detected
Boat Sampler	...Sample	..	..2025/10/23 13:23	..Low Sample Detected

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Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 10231222
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:31
Operator ID: RM IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			5778175	-1.297	-0.299	104
2			5745182	-0.987	0.012	98
3			5772543	-0.841	0.156	100
4			5526394	0.644	1.642	65

<<<Statistics>>> Mean: 5705574 Std Dev: 120319 RSD: 2.11

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231238
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:40
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1077.7419	43.1097	3042467	-1.351	-0.355	73

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231240
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:42
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1072.2174	42.8887	3026871	-1.173	-0.180	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231243
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:44
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1063.5485	42.5419	3002399	-1.194	-0.194	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 10231248
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 12:50
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1089.7552	43.5902	3076380	-1.493	-0.494	78

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231312
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:14
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0600	0.4024	28399	-1.411	-1.411	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231315
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:16
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20.6062	0.8242	58171	-1.444	-0.455	39

=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231317
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:19
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7098	0.3884	27411	-1.415	-1.414	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 10231320
Cal. Curve: TOC SOIL Timestamp: 2025/10/23 13:23
Operator ID: RM IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1047	0.0842	5942	-1.330	-1.443	120

Last Message: Low Sample Detected
=====

Calibration Report Print Date/Time: 2025/10/23 12:32:45

Cal. Curve ID: TOC SOIL
Created: 2025/10/23 12:32
Calibration Factor (m): 7.058e+04
Y Intercept (b): 169996
r-squared: 0.99634

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
BLANK	31950	0.000	-1.956	—	2025/10/23 11:57
250mg/l	849893	10.000	9.634	-3.7	2025/10/23 12:04
500mg/l	1675519	20.000	21.332	6.7	2025/10/23 12:12
1000mg/l	3173298	40.000	42.555	6.4	2025/10/23 12:21
2000mg/l	5705574	80.000	78.435	-2.0	2025/10/23 12:31

12
10/23/25

WORKLIST(Hardcopy Internal Chain)

LB 137 664

WorkList Name : toc-10-27

WorkList ID : 192693

Department : Wet-Chemistry

Date : 10-27-2025 09:01:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3419-01	PR-132-S16-015094-20251021	Solid	TOC	Cool 4 deg C	AECO02	D41	10/21/2025	Lloyd Kahn
Q3419-02	Q3419-01MS	Solid	TOC	Cool 4 deg C	AECO02	D41	10/21/2025	Lloyd Kahn
Q3419-03	Q3419-01MSD	Solid	TOC	Cool 4 deg C	AECO02	D41	10/21/2025	Lloyd Kahn
Q3419-04	PR-132-S16-119133-20251021	Solid	TOC	Cool 4 deg C	AECO02	D41	10/21/2025	Lloyd Kahn
Q3419-05	PR-132-S16-094119-20251021	Solid	TOC	Cool 4 deg C	AECO02	D41	10/21/2025	Lloyd Kahn
Q3422-01	PR132-S15-000008-20251017	Solid	TOC	Cool 4 deg C	AECO02	D41	10/21/2025	Lloyd Kahn
Q3424-01	PR132-DP3-20251021	Solid	TOC	Cool 4 deg C	AECO02	D31	10/21/2025	Lloyd Kahn
Q3424-02	PR132-S11-010080-20251021	Solid	TOC	Cool 4 deg C	AECO02	D31	10/21/2025	Lloyd Kahn
Q3424-03	PR132-S14-00094-20251021	Solid	TOC	Cool 4 deg C	AECO02	D31	10/21/2025	Lloyd Kahn

Date/Time 10/28/25 08:20
Raw Sample Received by: 12600
Raw Sample Relinquished by: 28600

Date/Time 10/28/25 14:50
Raw Sample Received by: 28600
Raw Sample Relinquished by: 12600

SOP ID : M3060A,7196A-Hex.Chromium-27

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 10/27/2025 Time : 09:00 Temp : 90 °C

End Digest Date: 10/27/2025 Time : 10:00 Temp : 95 °C

1/1 batch
10/27/2025 1025 90°C
10/27/2025 11:25 95°C

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Filter paper ID : 400213

Prep Technician Signature: *RH*

pH Meter ID : WC pH meter-1

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP113880
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP113880
LCSS	1.0ML	WP113881
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP115338
5M HNO3	5-7ML	WP115339
5N H2SO4	1-3ML	WP115340
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	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP115333
CAL3	CAL3	0.5ML	WP115333
CAL4	CAL4	1ML	WP115333
CAL5	CAL5	0.2ML	WP113880
CAL6	CAL6	1ML	WP113880
CAL7	CAL7	2.0ML	WP113880
ICV	ICV	1ML	WP113881
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP113880
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

10/27/2025 *PH*

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB170253BL	PBS253	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB170253BS	LCS253	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-01DUP	PR-132-S16-015094-202510 21DUP	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-01MSPre	PR-132-S16-015094-202510 21MSPRE	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-01MS2Ins	PR-132-S16-015094-202510 21MS2INS	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-01MS3Post	PR-132-S16-015094-202510 21MS3POST	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-01	PR-132-S16-015094-202510 21	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-04	PR-132-S16-119133-202510 21	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3419-05	PR-132-S16-094119-202510 21	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-01	TP-9	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-05	TP-10	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3440-01	JB-2	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3445-01	EO-01-102325	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3449-01	CF-620-COMP-41	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3451-01	TP-11	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3451-05	TP-12	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3452-01	JB-1	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3457-01	TR-05-102425	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3460-01	WC-1	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3460-05	WC-2	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3460-09	WC-3	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3460-13	WC-4	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3460-17	WC-5	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3466-02	B8-0.0-1.0-20251023	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q3466-05	B9-0.0-1.0-20251023	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
Q3466-07	B7-1.0-2.0-20251023	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : hex-10-27 WorkList ID : 192687 Department : Distillation Date : 10-27-2025 08:15:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3419-01	PR-132-S16-015094-20251021	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D41	10/21/2025	7196A
Q3419-04	PR-132-S16-119133-20251021	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D41	10/21/2025	7196A
Q3419-05	PR-132-S16-094119-20251021	Solid	Hexavalent Chromium	Cool 4 deg C	AECO02	D41	10/21/2025	7196A
Q3439-01	TP-9	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D41	10/22/2025	7196A
Q3439-05	TP-10	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D41	10/23/2025	7196A
Q3440-01	JB-2	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D41	10/22/2025	7196A
Q3445-01	EO-01-102325	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	D31	10/23/2025	7196A
Q3449-01	CF-620-COMP-41	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D21	10/23/2025	7196A
Q3451-01	TP-11	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/23/2025	7196A
Q3451-05	TP-12	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/23/2025	7196A
Q3452-01	JB-1	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/24/2025	7196A
Q3457-01	TR-05-102425	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	D31	10/24/2025	7196A
Q3460-01	WC-1	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/24/2025	7196A
Q3460-05	WC-2	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/24/2025	7196A
Q3460-09	WC-3	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/24/2025	7196A
Q3460-13	WC-4	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/24/2025	7196A
Q3460-17	WC-5	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D31	10/24/2025	7196A
Q3466-02	B8-0.0-1.0-20251023	Solid	Hexavalent Chromium	Cool 4 deg C	HDR108	D41	10/23/2025	7196A
Q3466-05	B9-0.0-1.0-20251023	Solid	Hexavalent Chromium	Cool 4 deg C	HDR108	D41	10/23/2025	7196A
Q3466-07	B7-1.0-2.0-20251023	Solid	Hexavalent Chromium	Cool 4 deg C	HDR108	D41	10/23/2025	7196A

Date/Time 10/27/2025 08:25 Date/Time 10/27/2025 15:50
 Raw Sample Received by: RM (wco) Raw Sample Received by: JPCCOCT
 Raw Sample Relinquished by: JPCCOCT Raw Sample Relinquished by: RM (wco)

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137657

Review By	rubina	Review On	10/27/2025 1:27:34 PM
Supervise By	Iwona	Supervise On	10/27/2025 1:28:00 PM
SubDirectory	LB137657	Test	Hexavalent Chromium
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	WP115295,WP115340,WP115339,WP114310		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/27/25 12:20		rubina	OK
2	CAL2	CAL2	CAL	10/27/25 12:20		rubina	OK
3	CAL3	CAL3	CAL	10/27/25 12:21		rubina	OK
4	CAL4	CAL4	CAL	10/27/25 12:21		rubina	OK
5	CAL5	CAL5	CAL	10/27/25 12:22		rubina	OK
6	CAL6	CAL6	CAL	10/27/25 12:22		rubina	OK
7	CAL7	CAL7	CAL	10/27/25 12:23		rubina	OK
8	ICV	ICV	ICV	10/27/25 12:23		rubina	OK
9	ICB	ICB	ICB	10/27/25 12:24		rubina	OK
10	CCV1	CCV1	CCV	10/27/25 12:24		rubina	OK
11	CCB1	CCB1	CCB	10/27/25 12:25		rubina	OK
12	RL Check	RL Check	RL	10/27/25 12:25		rubina	OK
13	PB170253BL	PB170253BL	MB	10/27/25 12:26		rubina	OK
14	PB170253BS	PB170253BS	LCS	10/27/25 12:26		rubina	OK
15	Q3419-01	PR-132-S16-015094-2	SAM	10/27/25 12:27		rubina	OK
16	Q3419-01DUP	PR-132-S16-015094-2	DUP	10/27/25 12:27		rubina	OK
17	Q3419-01MSPre	PR-132-S16-015094-2	MS	10/27/25 12:28		rubina	OK
18	Q3419-01MS2Ins	PR-132-S16-015094-2	MS	10/27/25 12:28		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137657

Review By	rubina	Review On	10/27/2025 1:27:34 PM
Supervise By	Iwona	Supervise On	10/27/2025 1:28:00 PM
SubDirectory	LB137657	Test	Hexavalent Chromium
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	WP115295,WP115340,WP115339,WP114310		

19	Q3419-01MS3Post	PR-132-S16-015094-2	MS	10/27/25 12:29		rubina	OK
20	Q3419-04	PR132-S16-119133-2	SAM	10/27/25 12:29		rubina	OK
21	Q3419-05	PR132-S16-094119-2	SAM	10/27/25 12:30		rubina	OK
22	Q3439-01	TP-9	SAM	10/27/25 12:30		rubina	OK
23	CCV2	CCV2	CCV	10/27/25 12:31		rubina	OK
24	CCB2	CCB2	CCB	10/27/25 12:31		rubina	OK
25	Q3439-05	TP-10	SAM	10/27/25 12:32		rubina	OK
26	Q3440-01	JB-2	SAM	10/27/25 12:32		rubina	OK
27	Q3445-01	EO-01-102325	SAM	10/27/25 12:33		rubina	OK
28	Q3449-01	CF-620-COMP-41	SAM	10/27/25 12:33		rubina	OK
29	Q3451-01	TP-11	SAM	10/27/25 12:34		rubina	OK
30	Q3451-05	TP-12	SAM	10/27/25 12:34		rubina	OK
31	Q3452-01	JB-1	SAM	10/27/25 12:35		rubina	OK
32	Q3457-01	TR-05-102425	SAM	10/27/25 12:35		rubina	OK
33	Q3460-01	WC-1	SAM	10/27/25 12:36		rubina	OK
34	Q3460-05	WC-2	SAM	10/27/25 12:36		rubina	OK
35	CCV3	CCV3	CCV	10/27/25 12:37		rubina	OK
36	CCB3	CCB3	CCB	10/27/25 12:37		rubina	OK
37	Q3460-09	WC-3	SAM	10/27/25 12:38		rubina	OK
38	Q3460-13	WC-4	SAM	10/27/25 12:38		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137657

Review By	rubina	Review On	10/27/2025 1:27:34 PM
Supervise By	Iwona	Supervise On	10/27/2025 1:28:00 PM
SubDirectory	LB137657	Test	Hexavalent Chromium
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	WP115295,WP115340,WP115339,WP114310		

39	Q3460-17	WC-5	SAM	10/27/25 12:39		rubina	OK
40	Q3466-02	B8-0.0-1.0-20251023	SAM	10/27/25 12:39		rubina	OK
41	Q3466-05	B9-0.0-1.0-20251023	SAM	10/27/25 12:40		rubina	OK
42	Q3466-07	B7-1.0-2.0-20251023	SAM	10/27/25 12:40		rubina	OK
43	CCV4	CCV4	CCV	10/27/25 12:41		rubina	OK
44	CCB4	CCB4	CCB	10/27/25 12:41		rubina	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137664

Review By	rubina	Review On	10/30/2025 2:49:59 PM
Supervise By	Iwona	Supervise On	10/31/2025 4:41:37 PM
SubDirectory	LB137664	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP115296,WP115297,WP115298,WP115299,WP115300		
ICV Standard	WP115301		
CCV Standard	WP115299		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115301		
Chk Standard	WP115035,WP115168		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	10/23/25 11:57		RM IZ	OK
2	250mg/l	250mg/l	CAL2	10/23/25 12:04		RM IZ	OK
3	500mg/l	500mg/l	CAL3	10/23/25 12:12		RM IZ	OK
4	1000mg/l	1000mg/l	CAL4	10/23/25 12:21		RM IZ	OK
5	2000mg/l	2000mg/l	CAL5	10/23/25 12:31		RM IZ	OK
6	ICV1	ICV1	ICV	10/23/25 12:50		RM IZ	OK
7	ICB1	ICB1	ICB	10/23/25 13:23		RM IZ	OK
8	CCV1	CCV1	CCV	10/28/25 09:00		RM IZ	OK
9	CCB1	CCB1	CCB	10/28/25 09:17		RM IZ	OK
10	LB137664BLS	LB137664BLS	MB	10/28/25 09:30		RM IZ	OK
11	LB137664BSS	LB137664BSS	LCS	10/28/25 09:38		RM IZ	OK
12	Q3419-01	PR-132-S16-015094-2	SAM	10/28/25 10:00		RM IZ	OK
13	Q3419-02	PR-132-S16-015094-2	MS	10/28/25 10:44		RM IZ	OK
14	Q3419-03	PR-132-S16-015094-2	MSD	10/28/25 11:09		RM IZ	OK
15	Q3419-04	PR132-S16-119133-2	SAM	10/28/25 11:49		RM IZ	OK
16	Q3419-05	PR132-S16-094119-2	SAM	10/28/25 12:14		RM IZ	OK
17	Q3422-01	PR132-S15-000008-2	SAM	10/28/25 12:31		RM IZ	OK
18	Q3424-01	PR132-DP3-2025102	SAM	10/28/25 12:51		RM IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB137664

Review By	rubina	Review On	10/30/2025 2:49:59 PM
Supervise By	Iwona	Supervise On	10/31/2025 4:41:37 PM
SubDirectory	LB137664	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP115296,WP115297,WP115298,WP115299,WP115300		
ICV Standard	WP115301		
CCV Standard	WP115299		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115301		
Chk Standard	WP115035,WP115168		

19	Q3424-02	PR132-S11-010080-2	SAM	10/28/25 13:09		RM IZ	OK
20	CCV2	CCV2	CCV	10/28/25 13:43		RM IZ	OK
21	CCB2	CCB2	CCB	10/28/25 14:01		RM IZ	OK
22	Q3424-03	PR132-S14-000094-2	SAM	10/28/25 14:30		RM IZ	OK
23	CCV3	CCV3	CCV	10/28/25 15:48		RM IZ	OK
24	CCB3	CCB3	CCB	10/28/25 16:02		RM IZ	OK

Prep Standard - Chemical Standard Summary

Order ID : Q3419

Test : Hexavalent Chromium,Percent Solids,TOC

Prepbatch ID : PB170253,

Sequence ID/Qc Batch ID: LB137657,LB137664,

Standard ID :

WP112903,WP113780,WP113880,WP113881,WP114035,WP114310,WP115035,WP115168,WP115295,WP115296,WP115297,WP115298,WP115299,WP115300,WP115301,WP115338,WP115339,WP115340,

Chemical ID :

E3979,M6151,M6162,M6186,M6187,W2202,W2651,W2652,W2860,W2979,W3112,W3113,W3152,W3163,W3168,W3169,W3206,W3219,

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/01/2025
FROM 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2051	TOC STOCK STD-SS, 4000PPM	WP113780	07/01/2025	01/01/2026	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 07/02/2025
FROM 2.50000ml of W2860 + 4.25600gram of W3219 + 495.00000ml of W3112 = Final Quantity: 500.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP113880	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP113881	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 07/10/2025
FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2050	TOC STOCK STD, 4000PPM	WP114035	07/22/2025	01/22/2026	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Jignesh Parikh 07/22/2025
FROM 5.00000ml of W2860 + 8.51200gram of W3169 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3354	Hexchrome Cleaning Solution	WP114310	08/19/2025	11/27/2025	Rubina Mughal	None	None	Jignesh Parikh 08/19/2025
FROM 182.00000ml of M6151 + 727.00000ml of W3112 + 91.00000ml of M6162 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
613	Phosphoric acid reagent	WP115035	10/02/2025	01/31/2026	Iwona Zarych	None	None	Jignesh Parikh
								10/03/2025

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2435	1:1 PHOSPHORIC ACID FOR TOC SOILS	WP115168	10/10/2025	01/31/2026	Iwona Zarych	None	None	Sarabjit Jaswal
								10/25/2025

FROM 50.00000ml of W2860 + 50.00000ml of W3112 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	WP115295	10/23/2025	10/30/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 10/24/2025
FROM 0.25000gram of W2979 + 50.00000ml of E3979 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
304	TOC CAL 0.00ppm	WP115296	10/23/2025	10/30/2025	Iwona Zarych	None	None	Jignesh Parikh 10/27/2025
FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
712	TOC SOIL cal 250ppm	WP115297	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 15.00000ml of W3112 + 1.00000ml of WP114035 = Final Quantity: 16.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
710	TOC SOIL cal 500ppm	WP115298	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 14.00000ml of W3112 + 2.00000ml of WP114035 = Final Quantity: 16.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3544	TOC SOIL Cal- CCV 1000PPM	WP115299	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP114035 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
713	TOC SOIL cal 2000ppm	WP115300	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 5.00000ml of W3112 + 5.00000ml of WP114035 = Final Quantity: 10.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2819	TOC ICV-LCSS, 1000PPM	WP115301	10/23/2025	10/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 10/27/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP113780 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
148	hexchrome digestion fluid	WP115338	10/27/2025	11/27/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Jignesh Parikh 10/27/2025

FROM 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1836	HNO3 Hex-Chrome, 5M	WP115339	10/27/2025	01/28/2026	Rubina Mughal	None	None	Jignesh Parikh 10/27/2025

FROM 320.00000ml of M6187 + 680.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
126	5N sulfuric acid	WP115340	10/27/2025	04/27/2026	Rubina Mughal	None	None	Jignesh Parikh 10/27/2025

FROM 140.00000ml of M6186 + 860.00000ml of W3112 = Final Quantity: 1.000 L

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24L1062001	10/04/2027	10/15/2025 / RITESHKUMAR	09/29/2025 / Riteshkumar	E3979

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)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

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	07/12/2026	08/13/2025 / Sagar	08/06/2025 / Sagar	M6186

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	01/28/2026	08/29/2025 / Sagar	08/08/2025 / Sagar	M6187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

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.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

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 / lwona	07/03/2024 / lwona	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 / lwona	07/08/2024 / lwona	W3113

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / lwona	11/25/2024 / lwona	W3152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / lwona	12/10/2024 / lwona	W3163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

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 / lwona	01/03/2025 / lwona	W3169

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206

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	2025040493	06/30/2030	06/26/2025 / lwona	06/26/2025 / lwona	W3219

Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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ThermoFisher
SCIENTIFIC

Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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This is to certify that units of the lot number above 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 purchaser, formulator or those performing further manufacturing 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 above information is the actual analytical results obtained.

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 ₃ PO 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 ₃ COOH)	<= 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



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	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-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.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis 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.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24L1062001
Manufactured Date: 2024-10-04
Expiration Date: 2027-10-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3979

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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

avantor™



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

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

 **avantor**™

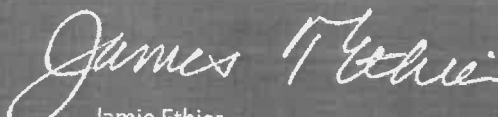


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS



m-6162

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

R. Date :- 04/27/2025

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>



Test	Specification	Result

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

Joak

Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™



M6186

Recieve Date :- 08/06/25

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 ₂ SO 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 SO ₂)	≤ 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™**

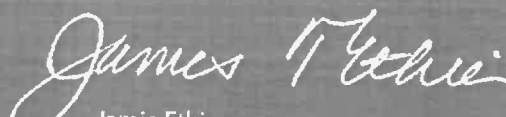


Material No.: 9673-33
Batch No.: 23D2462010

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


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS



M6187

R.D :- 08/08/25

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>



Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

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Jamie Croak
Director Quality Operations, Bioscience Production

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazine - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C₁₃H₁₄N₄O

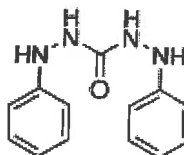
Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

Certificate of Analysis



Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

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

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

Storage: Room Temperature

Pellets

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.



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

Additional Information

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

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

Product meets analytical specifications of the grades listed.

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
Lot Number	002126-2019-201
Product	Magnesium chloride hexahydrate

Magnesium chloride•6H₂O

CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O

Molecular Weight	203.3
-------------------------	-------

Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO ₃) : < 0.001% Phosphate (PO ₄) : < 5 ppm Sulfate (SO ₄) : < 0.002%
Cation	Ammonium (NH ₄) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002126-2019-201

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

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W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis



Material: BDH9284-2.5KG
Material Description: BDH SODIUM CARB ANHYD ACS 2.5KG
Grade: U S P REAGENT (ACS GRADE)

Batch: 24E3156178
Reassay Date: 09/30/2027
CAS Number: 497-19-8
Molecular Formula: Na₂CO₃
Molecular Mass: 105.99

Date of Manufacture: 09/01/2023
Storage: Room Temperature
Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

Signature	Additional Information
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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

Internal ID #: 793

Signature	Additional Information
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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



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	HOCC6H4COOK
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

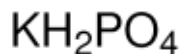
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 Years		



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate Of Analysis



Date of Release: 4/8/2025

Name: **Potassium Hydrogen Phthalate**

ACS

Item No: **PX1476 All Sizes**

Lot / Batch No: **2025040493**

Country of Origin: **USA**

Item	Specifications	Analysis
Assay (Dried Basis)	99.95-100.05%	99.98%
Chlorine compounds (as Cl)	0.003% max.	<0.003%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.005% max.	<0.005%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.05m solution @ 25.0C	4.00-4.02	4.00
Sodium (Na)	0.005% max.	<0.005%
Sulfur compounds (as S)	0.002% max.	<0.002%

Joe Schoellkopf

Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/23/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/23/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137614

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
Q3419-01	PR-132-S16-015094-20251021	1	1.15	11.01	12.16	7.14	54.4	
Q3419-02	Q3419-01MS	2	1.15	11.01	12.16	7.14	54.4	
Q3419-03	Q3419-01MSD	3	1.15	11.01	12.16	7.14	54.4	
Q3419-04	PR-132-S16-119133-20251021	4	1.16	10.07	11.23	6.37	51.7	
Q3419-05	PR-132-S16-094119-20251021	5	1.19	11.07	12.26	6.38	46.9	
Q3422-01	PR132-S15-000008-20251017	6	1.18	11.02	12.2	7.58	58.1	
Q3424-01	PR132-DP3-20251021	7	1.15	10.36	11.51	5.91	45.9	
Q3424-02	PR132-S11-010080-20251021	8	1.12	10.72	11.84	6.49	50.1	
Q3424-03	PR132-S14-00094-20251021	9	1.14	11.34	12.48	6.82	50.1	
Q3427-01	TP-8	10	1.11	10.77	11.88	10.84	90.3	
Q3427-02	TP-8-EPH	11	1.18	10.97	12.15	10.98	89.3	
Q3427-03	TP-8-VOC	12	1.19	10.26	11.45	10.52	90.9	
Q3429-01	40309	13	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3429-02	40310	14	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3430-01	BUR-25-0095	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3431-01	EO-02-10222025	16	1.11	10.55	11.66	10.64	90.3	
Q3431-02	EO-02-10222025-E2	17	1.17	10.59	11.76	10.59	89.0	
Q3434-01	PR132-WC1-20251022	18	1.13	10.43	11.56	7.17	57.9	

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

WORKLIST(Hardcopy Internal Chain)

137614

WorkList Name : %1-102225 WorkList ID : 192597 Department : Wet-Chemistry Date : 10-22-2025 09:03:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3419-01	PR-132-S16-015094-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-02	Q3419-01MS	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-03	Q3419-01MSD	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-04	PR-132-S16-119133-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3419-05	PR-132-S16-094119-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3422-01	PR132-S15-000008-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/21/2025	Chemtech -SO
Q3424-01	PR132-DP3-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/21/2025	Chemtech -SO
Q3424-02	PR132-S11-010080-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/21/2025	Chemtech -SO
Q3424-03	PR132-S14-00094-20251021	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/21/2025	Chemtech -SO
Q3427-01	TP-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3427-02	TP-8-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3427-03	TP-8-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3429-01	40309	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	10/22/2025	Chemtech -SO
Q3429-02	40310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	10/22/2025	Chemtech -SO
Q3430-01	BUR-25-0095	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	10/22/2025	Chemtech -SO
Q3431-01	EO-02-10222025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/22/2025	Chemtech -SO
Q3431-02	EO-02-10222025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/22/2025	Chemtech -SO
Q3434-01	PR132-WC1-20251022	Solid	Percent Solids	Cool 4 deg C	AECO02	D41	10/22/2025	Chemtech -SO

Date/Time 10/22/25 15:00

Raw Sample Received by: JG WWC

Raw Sample Relinquished by: JG WWC

Date/Time

Raw Sample Received by: JG WWC

Raw Sample Relinquished by: JG WWC



SHIPPING DOCUMENTS

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CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: AECOM
ADDRESS: 605 3rd Ave
CITY: New York STATE: NY ZIP: 10158
ATTENTION: Rob Forstner
PHONE: 212-377-8721 FAX:

PROJECT NAME: Port Richmond
PROJECT NO.: 60693795 LOCATION: Staten Isl
PROJECT MANAGER: Rob Forstner
e-mail: Robert.Forstner@aecom.com
PHONE: 11 FAX:

BILL TO: AECOM PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Rob Forstner PHONE: 11

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☒ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. SVOCs 2. Pesticides TCL 3. Hg Metals 4. PCBs Hexachlorine 5. Dioxin 6. Grain Size 7. TOCs 8. VOCs 9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	PR-132-S16-015094-20251021	S		X	10/21	9:31	11	X	X	X	X	X	X	X	X		
2.	PR-132-S16-015094-20251021-HS	S		X	10/21	9:31	10	X	X	X	X	X		X	X		
3.	PR132-S16-015094-20251021-MSD	S		X	10/21	9:31	10	X	X	X	X	X		X	X		
4.	PR132-S16-119133-20281021	S		X	10/21	9:33	11	X	X	X	X	X	X	X	X		
5.	PR132-S16-094119-20281021	S		X	10/21	9:33	11	X	X	X	X	X	X	X	X		
6.	Temp Blank	A			10/21		1	X	X	X	X	X			X		
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. Jim Alderson	DATE/TIME: 10/21/25 430	RECEIVED BY: 1. [Signature] 10-21-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 22.8 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 10-21-25	RECEIVED BY: 3.	

Page ____ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3419	AECO02	Order Date : 10/22/2025 11:01:00 AM	Project Mgr :
Client Name : AECOM		Project Name : AE1-CTY 3.2.Z-PR-DOCK	Report Type : NYS ASP <i>B</i>
Client Contact : Rob Forstner		Receive DateTime : 10/21/2025 5:40:00 PM	EDD Type : EQUIS
Invoice Name : AECOM		Purchase Order :	Hard Copy Date :
Invoice Contact : Rob Forstner			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3419-01	PR-132-S16-015094-20251021	Solid	10/21/2025	09:31					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3419-02	Q3419-01MS	Solid	10/21/2025	09:31					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3419-03	Q3419-01MSD	Solid	10/21/2025	09:31					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3419-04	<i>PR132</i> PR-132 -S16-119133-20251021	Solid	10/21/2025	09:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3419-05	<i>PR132</i> PR-132 -S16-094119-20251021	Solid	10/21/2025	09:33					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : *[Signature]*

Date / Time : *10/22/25 1245*

Received By : *JC*

Date / Time : *10/22/25*

1245

Storage Area : VOA Refridgerator Room