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

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : MEEKER AVE PLUMES SUPERFUND SITE RI FS

AECOM

605 3rd Avenue

29th Floor

New York, NY - 10158

Phone No: 212-973-2900

ORDER ID : Q1913

ATTENTION : Amit Haryani

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1913

Project ID : Meeker Ave Plumes Superfund Site RI FS

Client : AECOM

Lab Sample Number	Client Sample Number
Q1913-01	WC-12-S-202504
Q1913-02	WC-12-A-202504
Q1913-03	WC-13-S-202504
Q1913-04	WC-13-A-202504

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

Signature : APPROVED *By Nimisha Pandya, QA/QC Supervisor at 12:28 pm, May 12, 2025*

Date: 5/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Order ID # Q1913
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 04/29/2025.
2 Water samples were received on 04/29/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP VOA.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for WC-13-A-202504 [Dibromofluoromethane - 69%], WC-13-A-202504RE [Dibromofluoromethane - 73%] sample was reanalyzed to confirm the failure and reported.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration File ID VX045985.D met the requirements except for Carbon Tetrachloride is failing high but no positive hit in associate sample therefore no corrective action taken.
The Tuning criteria met requirements.

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E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:28 pm, May 12, 2025

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Order ID# Q1913
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 04/29/2025.
2 Water samples were received on 04/29/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF043025.M) for 2,4-Dinitrotoluene, this Compound is passing on Linear regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

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E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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.

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Order ID # Q1913
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 04/29/2025.
2 Water samples were received on 04/29/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP Pesticide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 12:28 pm, May 12, 2025

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Order ID # Q1913
Test Name: PCB

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 04/29/2025.
2 Water samples were received on 04/29/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

The soil samples results are based on a dry weight basis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 12:28 pm, May 12, 2025

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Order ID # Q1913
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 04/29/2025.
2 Water samples were received on 04/29/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP Mercury,TCLP ICP Metals.

C. Analytical Techniques:
The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate (MH-MMMSD) analysis met criteria for all samples except for Mercury due to matrix interference. The Duplicate (WC-13-S-202504DUP) analysis met criteria for all samples except for Barium due to sample Matrix interference.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

Fax and Hardcopy Data not match for Q1913-03 sample due to its Qc , MS-MSD recovery outside for more than 50 % parameter so Whole QC set with its Original sample were re-analyze in another sequence , so in Harcopy data report correct.

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Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:29 pm, May 12, 2025

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Order ID # Q1913
Test Name: Corrosivity,pH,Paint Filter,Flash Point,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 04/29/2025.
2 Water samples were received on 04/29/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for Corrosivity, pH, Paint Filter, Flash Point, Ignitability, Reactive Cyanide, Reactive Sulfide.

C. Analytical Techniques:
The analysis of Flash Point was based on method 1010B, The analysis of Ignitability was based on method 1030, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of pH was based on method 9040C, The analysis of Corrosivity was based on method 9045D and The analysis of Paint Filter was based on method 9095B.

D. QA/ QC Samples:
The Holding Times were met for all samples except for WC-12-A-202504 of pH, for WC-12-S-202504 of Corrosivity.for WC-13-A-202504 of pH.for WC-13-S-202504 of Corrosivity as samples were receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:29 pm, May 12, 2025

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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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DATA REPORTING QUALIFIERS- ORGANIC

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

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1913

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

QA Review Signature: SOHIL JODHANI **Date:** 05/09/2025

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LAB CHRONICLE

OrderID:	Q1913	**OrderDate:**	4/29/2025 2:15:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1913-01	**WC-12-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP VOA	8260D			04/30/25	
Q1913-02	**WC-12-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP VOA	8260D			04/30/25	
Q1913-03	**WC-13-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP VOA	8260D			04/30/25	
Q1913-04	**WC-13-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP VOA	8260D			04/30/25	
Q1913-04RE	**WC-13-A-202504RE**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP VOA	8260D			05/02/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1913

Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WC-12-A-202504**							
Q1913-02	WC-12-A-202504	TCLP	Chloroform	13.6		0.25	5.00	ug/L
Q1913-02	WC-12-A-202504	TCLP	Trichloroethene	1.20	J	0.090	5.00	ug/L
			Total Voc :	14.8				
			Total Concentration:	14.8				
Client ID:	**WC-13-S-202504**							
Q1913-03	WC-13-S-202504	TCLP	2-Butanone	7.60	J	0.98	25.0	ug/L
Q1913-03	WC-13-S-202504	TCLP	Benzene	1.30	J	0.15	5.00	ug/L
			Total Voc :	8.90				
			Total Concentration:	8.90				
Client ID:	**WC-13-A-202504RE**							
Q1913-04RE	WC-13-A-202504R	TCLP	Benzene	0.95	J	0.15	5.00	ug/L
			Total Voc :	0.95				
			Total Concentration:	0.95				

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046006.D	1		04/30/25 18:24	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.9		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	51.0		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	59900	5.55			
540-36-3	1,4-Difluorobenzene	120000	6.757			
3114-55-4	Chlorobenzene-d5	114000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	49900	12.018			

U = Not Detected
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046009.D	1		04/30/25 19:34	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	13.6		0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	1.20	J	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.5		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.0		77 - 121	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66900	5.544			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	55200	12.018			

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-03	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046007.D	1		04/30/25 18:47	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	7.60	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	1.30	J	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	49.7		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		77 - 121	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60600	5.544			
540-36-3	1,4-Difluorobenzene	119000	6.757			
3114-55-4	Chlorobenzene-d5	110000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50000	12.018			

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-04	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046008.D	1		04/30/25 19:10	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	34.5	*	75 - 124	69%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.7		77 - 121	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65500	5.544			
540-36-3	1,4-Difluorobenzene	124000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	55700	12.018			

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504RE	SDG No.:	Q1913
Lab Sample ID:	Q1913-04RE	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046018.D	1		05/02/25 11:31	VX050225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.95	J	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.2		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	36.3	*	75 - 124	73%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65400	5.544			
540-36-3	1,4-Difluorobenzene	124000	6.757			
3114-55-4	Chlorobenzene-d5	113000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47500	12.018			

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QC SUMMARY

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Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1913-01	WC-12-S-202504	1,2-Dichloroethane-d4	50	54.9	110		74	125
		Dibromofluoromethane	50	51.5	103		75	124
		Toluene-d8	50	51.0	102		86	113
		4-Bromofluorobenzene	50	53.7	107		77	121
Q1913-02	WC-12-A-202504	1,2-Dichloroethane-d4	50	53.5	107		74	125
		Dibromofluoromethane	50	51.0	102		75	124
		Toluene-d8	50	50.5	101		86	113
		4-Bromofluorobenzene	50	54.0	108		77	121
Q1913-03	WC-13-S-202504	1,2-Dichloroethane-d4	50	53.2	106		74	125
		Dibromofluoromethane	50	50.8	102		75	124
		Toluene-d8	50	49.7	99		86	113
		4-Bromofluorobenzene	50	54.4	109		77	121
Q1913-04	WC-13-A-202504	1,2-Dichloroethane-d4	50	50.7	101		74	125
		Dibromofluoromethane	50	34.5	69	*	75	124
		Toluene-d8	50	50.1	100		86	113
		4-Bromofluorobenzene	50	56.7	113		77	121
Q1913-04RE	WC-13-A-202504RE	1,2-Dichloroethane-d4	50	51.2	102		74	125
		Dibromofluoromethane	50	36.3	73	*	75	124
		Toluene-d8	50	50.1	100		86	113
		4-Bromofluorobenzene	50	53.2	106		77	121
VX0502WBL01	VX0502WBL01	1,2-Dichloroethane-d4	50	53.0	106		74	125
		Dibromofluoromethane	50	51.9	104		75	124
		Toluene-d8	50	51.0	102		86	113
		4-Bromofluorobenzene	50	53.1	106		77	121
VX0502WBS01	VX0502WBS01	1,2-Dichloroethane-d4	50	46.8	94		74	125
		Dibromofluoromethane	50	48.0	96		75	124
		Toluene-d8	50	44.4	89		86	113
		4-Bromofluorobenzene	50	46.9	94		77	121

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Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0430WBL01	VX0430WBL01	1,2-Dichloroethane-d4	50	56.3	113	74	125
		Dibromofluoromethane	50	52.5	105	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	51.9	104	77	121
VX0430WBS01	VX0430WBS01	1,2-Dichloroethane-d4	50	54.6	109	74	125
		Dibromofluoromethane	50	56.5	113	75	124
		Toluene-d8	50	52.1	104	86	113
		4-Bromofluorobenzene	50	55.7	111	77	121
VX0430WBSD0	VX0430WBSD01	1,2-Dichloroethane-d4	50	54.3	109	74	125
		Dibromofluoromethane	50	56.5	113	75	124
		Toluene-d8	50	52.0	104	86	113
		4-Bromofluorobenzene	50	56.5	113	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260-Low **Datafile :** VX045988.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0430WBS01	Vinyl chloride	20	17.3	ug/L	86			65	117	
	1,1-Dichloroethene	20	18.5	ug/L	93			74	110	
	2-Butanone	100	110	ug/L	110			65	122	
	Carbon Tetrachloride	20	21.8	ug/L	109			77	113	
	Chloroform	20	21.6	ug/L	108			79	113	
	Benzene	20	20.2	ug/L	101			82	109	
	1,2-Dichloroethane	20	22.8	ug/L	114			80	115	
	Trichloroethene	20	19.9	ug/L	100			77	113	
	Tetrachloroethene	20	19.0	ug/L	95			67	123	
	Chlorobenzene	20	21.3	ug/L	106			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260-Low **Datafile :** VX045989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0430WBSD01	Vinyl chloride	20	16.6	ug/L	83	4		65	117	20
	1,1-Dichloroethene	20	18.5	ug/L	93	0		74	110	20
	2-Butanone	100	120	ug/L	120	9		65	122	20
	Carbon Tetrachloride	20	21.8	ug/L	109	0		77	113	20
	Chloroform	20	21.0	ug/L	105	3		79	113	20
	Benzene	20	20.1	ug/L	101	0		82	109	20
	1,2-Dichloroethane	20	22.6	ug/L	113	1		80	115	20
	Trichloroethene	20	20.2	ug/L	101	1		77	113	20
	Tetrachloroethene	20	20.1	ug/L	101	6		67	123	20
	Chlorobenzene	20	20.8	ug/L	104	2		82	109	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8260D **Datafile :** VX046016.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0502WBS01	Vinyl chloride	20	15.3	ug/L	77			65	117	
	1,1-Dichloroethene	20	16.6	ug/L	83			74	110	
	2-Butanone	100	96.6	ug/L	97			65	122	
	Carbon Tetrachloride	20	19.2	ug/L	96			77	113	
	Chloroform	20	19.5	ug/L	98			79	113	
	Benzene	20	18.1	ug/L	91			82	109	
	1,2-Dichloroethane	20	19.7	ug/L	99			80	115	
	Trichloroethene	20	17.9	ug/L	90			77	113	
	Tetrachloroethene	20	18.6	ug/L	93			67	123	
	Chlorobenzene	20	19.2	ug/L	96			82	109	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0430WBL01

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX045987.D Lab Sample ID: VX0430WBL01

Date Analyzed: 04/30/2025 Time Analyzed: 10:55

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0430WBS01	VX0430WBS01	VX045988.D	04/30/2025
VX0430WBSD01	VX0430WBSD01	VX045989.D	04/30/2025
WC-12-S-202504	Q1913-01	VX046006.D	04/30/2025
WC-13-S-202504	Q1913-03	VX046007.D	04/30/2025
WC-13-A-202504	Q1913-04	VX046008.D	04/30/2025
WC-12-A-202504	Q1913-02	VX046009.D	04/30/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0502WBL01

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX046015.D Lab Sample ID: VX0502WBL01

Date Analyzed: 05/02/2025 Time Analyzed: 10:19

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0502WBS01	VX0502WBS01	VX046016.D	05/02/2025
WC-13-A-202504RE	Q1913-04RE	VX046018.D	05/02/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX045984.D BFB Injection Date: 04/30/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:32

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	67.1 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045985.D	04/30/2025	10:01
VX0430WBL01	VX0430WBL01	VX045987.D	04/30/2025	10:55
VX0430WBS01	VX0430WBS01	VX045988.D	04/30/2025	11:19
VX0430WBSD01	VX0430WBSD01	VX045989.D	04/30/2025	11:46
WC-12-S-202504	Q1913-01	VX046006.D	04/30/2025	18:24
WC-13-S-202504	Q1913-03	VX046007.D	04/30/2025	18:47
WC-13-A-202504	Q1913-04	VX046008.D	04/30/2025	19:10
WC-12-A-202504	Q1913-02	VX046009.D	04/30/2025	19:34

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX046012.D BFB Injection Date: 05/02/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:56

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	57.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	5.2 (7.6) 1
176	95.0 - 101.0% of mass 174	65.7 (95.8) 1
177	5.0 - 9.0% of mass 176	4.3 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046013.D	05/02/2025	09:26
VX0502WBL01	VX0502WBL01	VX046015.D	05/02/2025	10:19
VX0502WBS01	VX0502WBS01	VX046016.D	05/02/2025	10:42
WC-13-A-202504RE	Q1913-04RE	VX046018.D	05/02/2025	11:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX045985.D Date Analyzed: 04/30/2025

Instrument ID: MSVOA_X Time Analyzed: 10:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	83019	5.55	141256	6.75	122754	10.05
UPPER LIMIT	166038	6.049	282512	7.25	245508	10.549
LOWER LIMIT	41509.5	5.049	70628	6.25	61377	9.549
EPA SAMPLE NO.						
WC-12-S-202504	59864	5.55	119812	6.76	114218	10.06
WC-12-A-202504	66850	5.54	132618	6.76	122930	10.05
WC-13-S-202504	60625	5.54	119343	6.76	109935	10.06
WC-13-A-202504	65498	5.54	124153	6.76	116068	10.05
VX0430WBL01	62274	5.54	125239	6.76	116463	10.05
VX0430WBS01	79591	5.54	138531	6.76	123154	10.05
VX0430WBSD01	77091	5.54	132529	6.76	119517	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX045985.D Date Analyzed: 04/30/2025

Instrument ID: MSVOA_X Time Analyzed: 10:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60558	12.018				
UPPER LIMIT	121116	12.518				
LOWER LIMIT	30279	11.518				
EPA SAMPLE NO.						
WC-12-S-202504	49878	12.02				
WC-12-A-202504	55161	12.02				
WC-13-S-202504	50027	12.02				
WC-13-A-202504	55748	12.02				
VX0430WBL01	49781	12.02				
VX0430WBS01	58135	12.02				
VX0430WBSD01	57970	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX046013.D Date Analyzed: 05/02/2025

Instrument ID: MSVOA_X Time Analyzed: 09:26

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	88170	5.54	150204	6.75	131792	10.05
UPPER LIMIT	176340	6.044	300408	7.251	263584	10.549
LOWER LIMIT	44085	5.044	75102	6.251	65896	9.549
EPA SAMPLE NO.						
WC-13-A-202504RE	65405	5.54	123884	6.76	113310	10.05
VX0502WBL01	66865	5.54	129422	6.76	121808	10.05
VX0502WBS01	77025	5.55	135229	6.76	118203	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: VX046013.D Date Analyzed: 05/02/2025

Instrument ID: MSVOA_X Time Analyzed: 09:26

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	63914	12.018				
UPPER LIMIT	127828	12.518				
LOWER LIMIT	31957	11.518				
EPA SAMPLE NO.						
WC-13-A-202504RE	47494	12.02				
VX0502WBL01	52200	12.02				
VX0502WBS01	56323	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX0430WBL01	SDG No.:	Q1913
Lab Sample ID:	VX0430WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045987.D	1		04/30/25 10:55	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.3		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		77 - 121	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	62300	5.544			
540-36-3	1,4-Difluorobenzene	125000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49800	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	Q1913
Lab Sample ID:	VX0502WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046015.D	1		05/02/25 10:19	VX050225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	51.0		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66900	5.544			
540-36-3	1,4-Difluorobenzene	129000	6.757			
3114-55-4	Chlorobenzene-d5	122000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	52200	12.018			

U = Not Detected
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX0430WBS01	SDG No.:	Q1913
Lab Sample ID:	VX0430WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045988.D	1		04/30/25 11:19	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	1.00	ug/L
67-66-3	Chloroform	21.6		0.25	1.00	ug/L
71-43-2	Benzene	20.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		74 - 125	109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.5		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	52.1		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	79600	5.544			
540-36-3	1,4-Difluorobenzene	139000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58100	12.018			

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A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	Q1913
Lab Sample ID:	VX0502WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046016.D	1		05/02/25 10:42	VX050225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	15.3		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	16.6		0.23	5.00	ug/L
78-93-3	2-Butanone	96.6		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	5.00	ug/L
67-66-3	Chloroform	19.5		0.25	5.00	ug/L
71-43-2	Benzene	18.1		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.22	5.00	ug/L
79-01-6	Trichloroethene	17.9		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	18.6		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.2		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.8		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	44.3		86 - 113	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77000	5.55			
540-36-3	1,4-Difluorobenzene	135000	6.757			
3114-55-4	Chlorobenzene-d5	118000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	56300	12.018			

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A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	VX0430WBSD01	SDG No.:	Q1913
Lab Sample ID:	VX0430WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045989.D	1		04/30/25 11:46	VX043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.6		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
78-93-3	2-Butanone	120		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.8		0.25	1.00	ug/L
67-66-3	Chloroform	21.0		0.25	1.00	ug/L
71-43-2	Benzene	20.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.8		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		74 - 125	109%	SPK: 50
1868-53-7	Dibromofluoromethane	56.5		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	52.0		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		77 - 121	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77100	5.544			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58000	12.018			

U = Not Detected
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: MSVOA_X Calibration Date/Time: 04/30/2025 10:01

Lab File ID: VX045985.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.712		1.28	20
1,1-Dichloroethene	0.600	0.646		7.67	20
2-Butanone	0.550	0.628		14.18	20
Carbon Tetrachloride	0.518	0.632		22.01	20
Chloroform	1.306	1.474		12.86	20
Benzene	1.463	1.629		11.35	20
1,2-Dichloroethane	0.604	0.716		18.54	20
Trichloroethene	0.348	0.381		9.48	20
Tetrachloroethene	0.353	0.398		12.75	20
Chlorobenzene	1.068	1.246	0.3	16.67	20
1,2-Dichloroethane-d4	0.914	0.976		6.78	20
Dibromofluoromethane	0.355	0.405		14.09	20
Toluene-d8	1.238	1.287		3.96	20
4-Bromofluorobenzene	0.451	0.514		13.97	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: MSVOA_X Calibration Date/Time: 05/02/2025 09:26

Lab File ID: VX046013.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.648		-7.82	20
1,1-Dichloroethene	0.600	0.589		-1.83	20
2-Butanone	0.550	0.591		7.45	20
Carbon Tetrachloride	0.518	0.593		14.48	20
Chloroform	1.306	1.370		4.9	20
Benzene	1.463	1.528		4.44	20
1,2-Dichloroethane	0.604	0.665		10.1	20
Trichloroethene	0.348	0.368		5.75	20
Tetrachloroethene	0.353	0.396		12.18	20
Chlorobenzene	1.068	1.172	0.3	9.74	20
1,2-Dichloroethane-d4	0.914	0.908		-0.66	20
Dibromofluoromethane	0.355	0.375		5.63	20
Toluene-d8	1.238	1.201		-2.99	20
4-Bromofluorobenzene	0.451	0.502		11.31	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	Q1913	**OrderDate:**	4/29/2025 2:15:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1913-01	**WC-12-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP BNA	8270E		04/30/25	05/01/25	
Q1913-02	**WC-12-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP BNA	8270E		04/30/25	05/01/25	
Q1913-03	**WC-13-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP BNA	8270E		04/30/25	05/01/25	
Q1913-04	**WC-13-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP BNA	8270E		04/30/25	05/01/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1913

Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	04/30/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/30/25
Client Sample ID:	PB167774TB	SDG No.:	Q1913
Lab Sample ID:	PB167774TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142256.D	1	04/30/25 13:15	05/01/25 13:07	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		10 - 139	78%	SPK: 150
13127-88-3	Phenol-d6	116		10 - 134	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.3		49 - 133	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.1		52 - 132	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		44 - 137	87%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		48 - 125	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	218000	6.904			
1146-65-2	Naphthalene-d8	840000	8.186			
15067-26-2	Acenaphthene-d10	443000	9.945			
1517-22-2	Phenanthrene-d10	773000	11.427			
1719-03-5	Chrysene-d12	539000	14.068			
1520-96-3	Perylene-d12	394000	15.562			

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Report of Analysis

Client:	AECOM			Date Collected:	04/30/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/30/25
Client Sample ID:	PB167774TB			SDG No.:	Q1913
Lab Sample ID:	PB167774TB			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142256.D	1	04/30/25 13:15	05/01/25 13:07	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	04/30/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/30/25
Client Sample ID:	PB167805TB	SDG No.:	Q1913
Lab Sample ID:	PB167805TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024487.D	1	04/30/25 13:15	05/01/25 11:18	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		10 - 139	85%	SPK: 150
13127-88-3	Phenol-d6	113		10 - 134	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.2		49 - 133	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.8		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	155		44 - 137	103%	SPK: 150
1718-51-0	Terphenyl-d14	86.0		48 - 125	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	7.71			
1146-65-2	Naphthalene-d8	562000	10.481			
15067-26-2	Acenaphthene-d10	333000	14.345			
1517-22-2	Phenanthrene-d10	681000	17.151			
1719-03-5	Chrysene-d12	822000	21.616			
1520-96-3	Perylene-d12	1000000	24.962			

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Report of Analysis

Client:	AECOM	Date Collected:	04/30/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/30/25
Client Sample ID:	PB167805TB	SDG No.:	Q1913
Lab Sample ID:	PB167805TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024487.D	1	04/30/25 13:15	05/01/25 11:18	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-01	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024489.D	1	04/30/25 13:15	05/01/25 12:44	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	134		10 - 139	89%	SPK: 150
13127-88-3	Phenol-d6	116		10 - 134	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.9		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.1		52 - 132	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	169		44 - 137	113%	SPK: 150
1718-51-0	Terphenyl-d14	91.4		48 - 125	91%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	160000	7.711			
1146-65-2	Naphthalene-d8	611000	10.481			
15067-26-2	Acenaphthene-d10	350000	14.345			
1517-22-2	Phenanthrene-d10	678000	17.145			
1719-03-5	Chrysene-d12	789000	21.598			
1520-96-3	Perylene-d12	991000	24.951			

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Report of Analysis

Client:	AECOM			Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504			SDG No.:	Q1913
Lab Sample ID:	Q1913-01			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024489.D	1	04/30/25 13:15	05/01/25 12:44	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024490.D	1	04/30/25 13:15	05/01/25 13:25	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	102		10 - 139	68%	SPK: 150
13127-88-3	Phenol-d6	78.0		10 - 134	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.9		49 - 133	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.4		52 - 132	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	154		44 - 137	103%	SPK: 150
1718-51-0	Terphenyl-d14	85.3		48 - 125	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	148000	7.71			
1146-65-2	Naphthalene-d8	578000	10.481			
15067-26-2	Acenaphthene-d10	347000	14.339			
1517-22-2	Phenanthrene-d10	702000	17.157			
1719-03-5	Chrysene-d12	848000	21.598			
1520-96-3	Perylene-d12	1030000	24.951			

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Report of Analysis

Client:	AECOM			Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504			SDG No.:	Q1913
Lab Sample ID:	Q1913-02			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024490.D	1	04/30/25 13:15	05/01/25 13:25	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-03	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024499.D	1	04/30/25 13:15	05/01/25 19:36	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	115		10 - 139	77%	SPK: 150
13127-88-3	Phenol-d6	96.3		10 - 134	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.3		49 - 133	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.6		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		44 - 137	111%	SPK: 150
1718-51-0	Terphenyl-d14	111		48 - 125	111%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	208000	7.71			
1146-65-2	Naphthalene-d8	830000	10.487			
15067-26-2	Acenaphthene-d10	529000	14.345			
1517-22-2	Phenanthrene-d10	1080000	17.145			
1719-03-5	Chrysene-d12	861000	21.598			
1520-96-3	Perylene-d12	995000	24.951			

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Report of Analysis

Client:	AECOM			Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504			SDG No.:	Q1913
Lab Sample ID:	Q1913-03			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024499.D	1	04/30/25 13:15	05/01/25 19:36	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-04	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142260.D	1	04/30/25 13:15	05/01/25 15:06	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	103		10 - 139	69%	SPK: 150
13127-88-3	Phenol-d6	96.1		10 - 134	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.4		49 - 133	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.9		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	115		44 - 137	77%	SPK: 150
1718-51-0	Terphenyl-d14	55.4		48 - 125	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.904			
1146-65-2	Naphthalene-d8	767000	8.187			
15067-26-2	Acenaphthene-d10	376000	9.939			
1517-22-2	Phenanthrene-d10	513000	11.428			
1719-03-5	Chrysene-d12	437000	14.063			
1520-96-3	Perylene-d12	450000	15.557			

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Report of Analysis

Client:	AECOM			Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504			SDG No.:	Q1913
Lab Sample ID:	Q1913-04			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142260.D	1	04/30/25 13:15	05/01/25 15:06	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167774TB	PB167774TB	2-Fluorophenol	150	116	78		10	139
		Phenol-d6	150	116	77		10	134
		Nitrobenzene-d5	100	87.3	87		49	133
		2-Fluorobiphenyl	100	72.1	72		52	132
		2,4,6-Tribromophenol	150	131	87		44	137
		Terphenyl-d14	100	67.9	68		48	125
PB167805TB	PB167805TB	2-Fluorophenol	150	128	85		10	139
		Phenol-d6	150	113	75		10	134
		Nitrobenzene-d5	100	86.2	86		49	133
		2-Fluorobiphenyl	100	89.8	90		52	132
		2,4,6-Tribromophenol	150	155	103		44	137
		Terphenyl-d14	100	86.0	86		48	125
PB167810BL	PB167810BL	2-Fluorophenol	150	110	73		10	139
		Phenol-d6	150	109	73		10	134
		Nitrobenzene-d5	100	83.3	83		49	133
		2-Fluorobiphenyl	100	69.1	69		52	132
		2,4,6-Tribromophenol	150	124	83		44	137
		Terphenyl-d14	100	63.3	63		48	125
PB167810BS	PB167810BS	2-Fluorophenol	150	111	74		10	139
		Phenol-d6	150	113	75		10	134
		Nitrobenzene-d5	100	82.4	82		49	133
		2-Fluorobiphenyl	100	68.5	69		52	132
		2,4,6-Tribromophenol	150	132	88		44	137
		Terphenyl-d14	100	74.1	74		48	125
Q1901-08MS	B-167-SB01MS	2-Fluorophenol	150	96.6	64		10	139
		Phenol-d6	150	89.8	60		10	134
		Nitrobenzene-d5	100	84.0	84		49	133
		2-Fluorobiphenyl	100	70.7	71		52	132
		2,4,6-Tribromophenol	150	126	84		44	137
		Terphenyl-d14	100	70.4	70		48	125
Q1901-08MSD	B-167-SB01MSD	2-Fluorophenol	150	99.4	66		10	139
		Phenol-d6	150	92.8	62		10	134
		Nitrobenzene-d5	100	87.8	88		49	133
		2-Fluorobiphenyl	100	72.3	72		52	132
		2,4,6-Tribromophenol	150	133	88		44	137
		Terphenyl-d14	100	72.8	73		48	125
Q1913-01	WC-12-S-202504	2-Fluorophenol	150	134	89		10	139
		Phenol-d6	150	116	77		10	134
		Nitrobenzene-d5	100	91.9	92		49	133
		2-Fluorobiphenyl	100	97.1	97		52	132
		2,4,6-Tribromophenol	150	169	113		44	137
		Terphenyl-d14	100	91.4	91		48	125
Q1913-02	WC-12-A-202504	2-Fluorophenol	150	102	68		10	139
		Phenol-d6	150	78.0	52		10	134
		Nitrobenzene-d5	100	80.9	81		49	133
		2-Fluorobiphenyl	100	83.4	83		52	132
		2,4,6-Tribromophenol	150	154	103		44	137
		Terphenyl-d14	100	85.3	85		48	125
Q1913-03	WC-13-S-202504	2-Fluorophenol	150	115	77		10	139
		Phenol-d6	150	96.3	64		10	134
		Nitrobenzene-d5	100	85.3	85		49	133

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Surrogate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1913-03	WC-13-S-202504	2-Fluorobiphenyl	100	85.6	86		52	132
		2,4,6-Tribromophenol	150	166	111		44	137
		Terphenyl-d14	100	111	111		48	125
Q1913-04	WC-13-A-202504	2-Fluorophenol	150	103	69		10	139
		Phenol-d6	150	96.1	64		10	134
		Nitrobenzene-d5	100	88.4	88		49	133
		2-Fluorobiphenyl	100	74.9	75		52	132
		2,4,6-Tribromophenol	150	115	77		44	137
		Terphenyl-d14	100	55.4	55		48	125

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1901-08MS		**Client Sample ID:** B-167-SB01MS						**DataFile:** BF142277.D			
Pyridine	500	24.1	270	ug/L	49				10	109	
1,4-Dichlorobenzene	500	0	340	ug/L	68				55	125	
2-Methylphenol	500	0	360	ug/L	72				60	131	
3+4-Methylphenols	500	0	360	ug/L	72				54	136	
Hexachloroethane	500	0	350	ug/L	70				19	146	
Nitrobenzene	500	0	440	ug/L	88				62	112	
Hexachlorobutadiene	500	0	380	ug/L	76				52	125	
2,4,6-Trichlorophenol	500	0	470	ug/L	94				78	112	
2,4,5-Trichlorophenol	500	0	460	ug/L	92				71	111	
2,4-Dinitrotoluene	500	0	500	ug/L	100				74	137	
Hexachlorobenzene	500	0	440	ug/L	88				72	115	
Pentachlorophenol	1000	0	940	ug/L	94				52	162	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1901-08MSD		**Client Sample ID:** B-167-SB01MSD						**DataFile:** BF142278.D			
Pyridine	500	24.1	280	ug/L	51		4		10	109	20
1,4-Dichlorobenzene	500	0	340	ug/L	68		0		55	125	20
2-Methylphenol	500	0	370	ug/L	74		3		60	131	20
3+4-Methylphenols	500	0	370	ug/L	74		3		54	136	20
Hexachloroethane	500	0	370	ug/L	74		6		19	146	20
Nitrobenzene	500	0	460	ug/L	92		4		62	112	20
Hexachlorobutadiene	500	0	390	ug/L	78		3		52	125	20
2,4,6-Trichlorophenol	500	0	480	ug/L	96		2		78	112	20
2,4,5-Trichlorophenol	500	0	470	ug/L	94		2		71	111	20
2,4-Dinitrotoluene	500	0	530	ug/L	106		6		74	137	20
Hexachlorobenzene	500	0	450	ug/L	90		2		72	115	20
Pentachlorophenol	1000	0	970	ug/L	97		3		52	162	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8270E **DataFile:** BF142255.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167810BS	Pyridine	50	37.2	ug/L	74				29	97	
	1,4-Dichlorobenzene	50	39.6	ug/L	79				76	103	
	2-Methylphenol	50	41.0	ug/L	82				69	109	
	3+4-Methylphenols	50	40.8	ug/L	82				67	106	
	Hexachloroethane	50	41.8	ug/L	84				76	118	
	Nitrobenzene	50	45.8	ug/L	92				58	106	
	Hexachlorobutadiene	50	41.5	ug/L	83				69	101	
	2,4,6-Trichlorophenol	50	43.4	ug/L	87				61	110	
	2,4,5-Trichlorophenol	50	44.9	ug/L	90				70	106	
	2,4-Dinitrotoluene	50	49.8	ug/L	100				60	115	
	Hexachlorobenzene	50	41.6	ug/L	83				73	106	
	Pentachlorophenol	100	93.4	ug/L	93				47	114	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167810BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: BF142254.D Lab Sample ID: PB167810BL

Instrument ID: BNA_F Date Extracted: 04/30/2025

Matrix: (soil/water) water Date Analyzed: 05/01/2025

Level: (low/med) LOW Time Analyzed: 12:10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167810BS	PB167810BS	BF142255.D	05/01/2025
WC-13-A-202504	Q1913-04	BF142260.D	05/01/2025
B-167-SB01MS	Q1901-08MS	BF142277.D	05/02/2025
B-167-SB01MSD	Q1901-08MSD	BF142278.D	05/02/2025
PB167805TB	PB167805TB	BP024487.D	05/01/2025
WC-12-S-202504	Q1913-01	BP024489.D	05/01/2025
WC-12-A-202504	Q1913-02	BP024490.D	05/01/2025
WC-13-S-202504	Q1913-03	BP024499.D	05/01/2025
PB167774TB	PB167774TB	BF142256.D	05/01/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: BF142238.D DFTPP Injection Date: 04/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.6
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	27.3
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.3
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142239.D	04/30/2025	11:24
SSTDICC005	SSTDICC005	BF142240.D	04/30/2025	11:52
SSTDICC010	SSTDICC010	BF142241.D	04/30/2025	12:20
SSTDICC020	SSTDICC020	BF142242.D	04/30/2025	12:49
SSTDICCC040	SSTDICCC040	BF142243.D	04/30/2025	13:17
SSTDICC050	SSTDICC050	BF142244.D	04/30/2025	13:46
SSTDICC060	SSTDICC060	BF142245.D	04/30/2025	14:15
SSTDICC080	SSTDICC080	BF142246.D	04/30/2025	14:43

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: BF142249.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	42.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142250.D	05/01/2025	10:17
PB167810BL	PB167810BL	BF142254.D	05/01/2025	12:10
PB167810BS	PB167810BS	BF142255.D	05/01/2025	12:39
PB167774TB	PB167774TB	BF142256.D	05/01/2025	13:07
WC-13-A-202504	Q1913-04	BF142260.D	05/01/2025	15:06

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: BF142273.D DFTPP Injection Date: 05/02/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.7
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	27.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	37.6
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142274.D	05/02/2025	10:39
B-167-SB01MS	Q1901-08MS	BF142277.D	05/02/2025	12:27
B-167-SB01MSD	Q1901-08MSD	BF142278.D	05/02/2025	12:55

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: BP024274.D DFTPP Injection Date: 04/14/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.5
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	29.1
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	99.1
443	15.0 - 24.0% of mass 442	19.2 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024275.D	04/14/2025	11:06
SSTDICC005	SSTDICC005	BP024276.D	04/14/2025	11:47
SSTDICC010	SSTDICC010	BP024277.D	04/14/2025	12:27
SSTDICC020	SSTDICC020	BP024278.D	04/14/2025	13:08
SSTDICCC040	SSTDICCC040	BP024279.D	04/14/2025	13:49
SSTDICC050	SSTDICC050	BP024280.D	04/14/2025	15:10
SSTDICC060	SSTDICC060	BP024281.D	04/14/2025	16:32
SSTDICC080	SSTDICC080	BP024282.D	04/14/2025	17:13

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: Q1913 SDG NO.: Q1913

Lab File ID: BP024485.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.7
68	Less than 2.0% of mass 69	0.5 (2) 1
69	Mass 69 relative abundance	25.9
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	37.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.5
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024486.D	05/01/2025	10:37
PB167805TB	PB167805TB	BP024487.D	05/01/2025	11:18
WC-12-S-202504	Q1913-01	BP024489.D	05/01/2025	12:44
WC-12-A-202504	Q1913-02	BP024490.D	05/01/2025	13:25
WC-13-S-202504	Q1913-03	BP024499.D	05/01/2025	19:36

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	186578	6.91	719586	8.19	381198	9.95
	UPPER LIMIT	373156	7.41	1439170	8.692	762396	10.445
	LOWER LIMIT	93289	6.41	359793	7.692	190599	9.445
	EPA SAMPLE NO.						
01	PB167774TB	217516	6.90	839699	8.19	443070	9.95
02	PB167810BL	223997	6.90	857825	8.19	449926	9.95
03	PB167810BS	228833	6.91	892782	8.19	472284	9.95
04	WC-13-A-202504	204789	6.90	767468	8.19	376081	9.94

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	647816	11.433	384442	14.074	349272	15.562
	UPPER LIMIT	1295630	11.933	768884	14.574	698544	16.062
	LOWER LIMIT	323908	10.933	192221	13.574	174636	15.062
	EPA SAMPLE NO.						
01	PB167774TB	773002	11.43	539235	14.07	394051	15.56
02	PB167810BL	794711	11.43	568207	14.07	404816	15.56
03	PB167810BS	804874	11.43	464382	14.07	446826	15.57
04	WC-13-A-202504	513009	11.43	437449	14.06	449964	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2025

Lab File ID: BF142274.D Time Analyzed: 10:39

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	189457	6.91	747235	8.19	389025	9.95
	UPPER LIMIT	378914	7.41	1494470	8.692	778050	10.445
	LOWER LIMIT	94728.5	6.41	373618	7.692	194513	9.445
	EPA SAMPLE NO.						
01	B-167-SB01MS	212656	6.91	808361	8.19	402059	9.95
02	B-167-SB01MSD	217028	6.91	832936	8.19	419407	9.95

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2025

Lab File ID: BF142274.D Time Analyzed: 10:39

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	652685	11.427	354752	14.068	327562	15.557
	UPPER LIMIT	1305370	11.927	709504	14.568	655124	16.057
	LOWER LIMIT	326343	10.927	177376	13.568	163781	15.057
	EPA SAMPLE NO.						
01	B-167-SB01MS	629997	11.43	370460	14.07	379220	15.56
02	B-167-SB01MSD	684254	11.43	400079	14.07	401381	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BP024486.D Time Analyzed: 10:37

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	147752	7.711	596585	10.48	373130	14.35
	UPPER LIMIT	295504	8.211	1193170	10.981	746260	14.846
	LOWER LIMIT	73876	7.211	298293	9.981	186565	13.846
	EPA SAMPLE NO.						
01	WC-13-S-202504	207548	7.71	829684	10.49	528997	14.35
02	PB167805TB	147117	7.71	562398	10.48	333420	14.35
03	WC-12-S-202504	159742	7.71	610644	10.48	349744	14.35
04	WC-12-A-202504	147765	7.71	578416	10.48	346607	14.34

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BP024486.D Time Analyzed: 10:37

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	737949	17.145	820131	21.592	979134	24.939
	UPPER LIMIT	1475900	17.645	1640260	22.092	1958270	25.439
	LOWER LIMIT	368975	16.645	410066	21.092	489567	24.439
	EPA SAMPLE NO.						
01	WC-13-S-202504	1075370	17.15	861399	21.60	995064	24.95
02	PB167805TB	681369	17.15	822212	21.62	999851	24.96
03	WC-12-S-202504	678455	17.15	788921	21.60	990879	24.95
04	WC-12-A-202504	702177	17.16	848293	21.60	1030920	24.95

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167810BL	SDG No.:	Q1913
Lab Sample ID:	PB167810BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142254.D	1	04/30/25 13:15	05/01/25 12:10	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.53	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	110		10 - 139	73%	SPK: 150
13127-88-3	Phenol-d6	109		10 - 134	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.3		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.1		52 - 132	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		44 - 137	83%	SPK: 150
1718-51-0	Terphenyl-d14	63.3		48 - 125	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	224000	6.904			
1146-65-2	Naphthalene-d8	858000	8.187			
15067-26-2	Acenaphthene-d10	450000	9.945			
1517-22-2	Phenanthrene-d10	795000	11.428			
1719-03-5	Chrysene-d12	568000	14.069			
1520-96-3	Perylene-d12	405000	15.563			

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Report of Analysis

Client:	AECOM			Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	
Client Sample ID:	PB167810BL			SDG No.:	Q1913
Lab Sample ID:	PB167810BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142254.D	1	04/30/25 13:15	05/01/25 12:10	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167810BS	SDG No.:	Q1913
Lab Sample ID:	PB167810BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142255.D	1	04/30/25 13:15	05/01/25 12:39	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	37.2		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	39.6		0.53	5.00	ug/L
95-48-7	2-Methylphenol	41.0		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.8		1.10	10.0	ug/L
67-72-1	Hexachloroethane	41.8		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.8		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.5		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	43.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.9		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.8		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	41.6		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	93.4	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	111		10 - 139	74%	SPK: 150
13127-88-3	Phenol-d6	113		10 - 134	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.4		49 - 133	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.5		52 - 132	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		44 - 137	88%	SPK: 150
1718-51-0	Terphenyl-d14	74.1		48 - 125	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	229000	6.91			
1146-65-2	Naphthalene-d8	893000	8.192			
15067-26-2	Acenaphthene-d10	472000	9.945			
1517-22-2	Phenanthrene-d10	805000	11.433			
1719-03-5	Chrysene-d12	464000	14.074			
1520-96-3	Perylene-d12	447000	15.568			

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM			Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	
Client Sample ID:	PB167810BS			SDG No.:	Q1913
Lab Sample ID:	PB167810BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142255.D	1	04/30/25 13:15	05/01/25 12:39	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM	Date Collected:	04/26/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1913
Lab Sample ID:	Q1901-08MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142277.D	1	04/30/25 13:15	05/02/25 12:27	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	270		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	340		5.30	50.0	ug/L
95-48-7	2-Methylphenol	360		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	360		11.0	100	ug/L
67-72-1	Hexachloroethane	350		6.50	50.0	ug/L
98-95-3	Nitrobenzene	440		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	380		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	470		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	460		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	500		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	440		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	940	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	96.6		10 - 139	64%	SPK: 150
13127-88-3	Phenol-d6	89.8		10 - 134	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.0		49 - 133	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.7		52 - 132	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		44 - 137	84%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		48 - 125	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	213000	6.91			
1146-65-2	Naphthalene-d8	808000	8.193			
15067-26-2	Acenaphthene-d10	402000	9.945			
1517-22-2	Phenanthrene-d10	630000	11.433			
1719-03-5	Chrysene-d12	370000	14.069			
1520-96-3	Perylene-d12	379000	15.557			

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM			Date Collected:	04/26/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS			SDG No.:	Q1913
Lab Sample ID:	Q1901-08MS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142277.D	1	04/30/25 13:15	05/02/25 12:27	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
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* = Values outside of QC limits
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Report of Analysis

Client:	AECOM	Date Collected:	04/26/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1913
Lab Sample ID:	Q1901-08MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142278.D	1	04/30/25 13:15	05/02/25 12:55	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	280		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	340		5.30	50.0	ug/L
95-48-7	2-Methylphenol	370		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	370		11.0	100	ug/L
67-72-1	Hexachloroethane	370		6.50	50.0	ug/L
98-95-3	Nitrobenzene	460		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	390		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	480		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	470		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	530		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	450		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	970	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	99.4		10 - 139	66%	SPK: 150
13127-88-3	Phenol-d6	92.8		10 - 134	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.8		49 - 133	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		52 - 132	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		44 - 137	88%	SPK: 150
1718-51-0	Terphenyl-d14	72.8		48 - 125	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	217000	6.91			
1146-65-2	Naphthalene-d8	833000	8.193			
15067-26-2	Acenaphthene-d10	419000	9.945			
1517-22-2	Phenanthrene-d10	684000	11.433			
1719-03-5	Chrysene-d12	400000	14.069			
1520-96-3	Perylene-d12	401000	15.563			

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Report of Analysis

Client:	AECOM			Date Collected:	04/26/25
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD			SDG No.:	Q1913
Lab Sample ID:	Q1901-08MSD			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142278.D	1	04/30/25 13:15	05/02/25 12:55	PB167810

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 30 16:00:01 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142239.D 5 =BF142240.D 10 =BF142241.D 20 =BF142242.D 40 =BF142243.D 50 =BF142244.D 60 =BF142245.D 80 =BF1422
46.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.563	0.534	0.561	0.592	0.580	0.555	0.530	0.559	4.03
3)		Pyridine		1.465	1.391	1.454	1.522	1.503	1.460	1.380	1.454	3.62
4)		n-Nitrosodimet...		0.747	0.699	0.728	0.807	0.789	0.766	0.731	0.752	4.95
5)	S	2-Fluorophenol		1.324	1.238	1.265	1.314	1.285	1.210	1.131	1.252	5.35
6)		Aniline		2.212	2.085	2.157	2.245	2.203	2.101	1.981	2.140	4.29
7)	S	Phenol-d6		1.559	1.505	1.534	1.593	1.550	1.475	1.370	1.512	4.85
8)		2-Chlorophenol		1.252	1.232	1.304	1.379	1.354	1.313	1.225	1.294	4.64
9)		Benzaldehyde		1.154	1.088	1.095	1.117	1.078	0.993	0.875	1.057	8.91
10)	C	Phenol		1.679	1.588	1.657	1.715	1.687	1.603	1.468	1.628	5.15
11)		bis(2-Chloroet...		1.345	1.250	1.270	1.318	1.285	1.231	1.132	1.262	5.46
12)		1,3-Dichlorobe...		1.571	1.485	1.485	1.533	1.478	1.396	1.299	1.464	6.18
13)	C	1,4-Dichlorobe...		1.610	1.486	1.495	1.546	1.488	1.404	1.295	1.475	6.86
14)		1,2-Dichlorobe...		1.489	1.418	1.431	1.475	1.432	1.356	1.255	1.408	5.67
15)		Benzyl Alcohol		1.047	1.017	1.064	1.149	1.126	1.082	1.023	1.073	4.69
16)		2,2'-oxybis(1-...		2.368	2.287	2.303	2.386	2.344	2.216	2.043	2.278	5.19
17)		2-Methylphenol		1.085	1.029	1.068	1.121	1.084	1.050	0.983	1.060	4.19
18)		Hexachloroethane		0.468	0.466	0.481	0.511	0.514	0.489	0.451	0.483	4.84
19)	P	n-Nitroso-di-n...	0.953	0.987	0.937	0.949	0.967	0.939	0.898	0.844	0.934	4.77
20)		3+4-Methylphenols		1.357	1.323	1.372	1.400	1.366	1.296	1.166	1.326	5.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.511	0.482	0.483	0.468	0.461	0.430	0.404	0.463	7.70
23)	S	Nitrobenzene-d5		0.217	0.251	0.302	0.340	0.351	0.339	0.330	0.304	16.88
24)		Nitrobenzene		0.229	0.261	0.297	0.328	0.338	0.323	0.314	0.299	13.31
25)		Isophorone		0.660	0.630	0.642	0.660	0.654	0.626	0.601	0.639	3.36
26)	C	2-Nitrophenol		0.048	0.057	0.083	0.115	0.132	0.136	0.142	0.102	38.38#
27)		2,4-Dimethylph...		0.315	0.319	0.333	0.337	0.333	0.315	0.302	0.322	3.96
28)		bis(2-Chloroet...		0.425	0.404	0.414	0.415	0.410	0.386	0.366	0.403	4.98
29)	C	2,4-Dichloroph...		0.246	0.253	0.274	0.291	0.286	0.272	0.263	0.269	6.12
30)		1,2,4-Trichlor...		0.320	0.303	0.305	0.312	0.304	0.287	0.273	0.301	5.28
31)		Naphthalene		1.106	1.040	1.035	1.020	0.999	0.924	0.858	0.997	8.21
32)		Benzoic acid			0.048	0.087	0.130	0.146	0.159	0.179	0.125	39.24
33)		4-Chloroaniline		0.446	0.414	0.429	0.429	0.423	0.396	0.371	0.415	5.98
34)	C	Hexachlorobuta...		0.180	0.175	0.179	0.185	0.178	0.170	0.161	0.175	4.35
35)		Caprolactam		0.068	0.073	0.081	0.087	0.089	0.085	0.083	0.081	9.45
36)	C	4-Chloro-3-met...		0.262	0.265	0.279	0.295	0.293	0.276	0.266	0.277	4.84
37)		2-Methylnaphth...		0.679	0.637	0.633	0.623	0.612	0.574	0.534	0.613	7.69
38)		1-Methylnaphth...		0.700	0.655	0.667	0.652	0.641	0.590	0.542	0.635	8.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.621	0.575	0.572	0.576	0.566	0.534	0.496	0.563	6.88
41)	P	Hexachlorocycl...	0.244	0.265	0.306	0.352	0.368	0.358	0.343	0.319	15.23
42)	S	2,4,6-Tribromo...	0.139	0.158	0.184	0.204	0.205	0.197	0.190	0.182	13.73
43)	C	2,4,6-Trichlor...	0.275	0.329	0.353	0.370	0.375	0.381	0.357	0.349	10.50
44)		2,4,5-Trichlor...	0.322	0.330	0.362	0.404	0.411	0.371	0.365	0.367	9.17
45)	S	2-Fluorobiphenyl	1.738	1.580	1.520	1.409	1.347	1.221	1.114	1.418	15.11
46)		1,1'-Biphenyl	1.773	1.621	1.612	1.581	1.547	1.435	1.316	1.555	9.38
47)		2-Chloronaphth...	1.289	1.176	1.191	1.185	1.157	1.085	1.014	1.157	7.51
48)		2-Nitroaniline	0.119	0.156	0.228	0.295	0.316	0.315	0.316	0.249	33.25
49)		Acenaphthylene	2.149	2.025	2.025	1.997	1.965	1.828	1.675	1.952	7.93
50)		Dimethylphthalate	1.362	1.284	1.301	1.321	1.309	1.227	1.152	1.280	5.42
51)		2,6-Dinitrotol...	0.098	0.137	0.193	0.241	0.259	0.254	0.249	0.204	31.45
52)	C	Acenaphthene	1.271	1.175	1.156	1.172	1.138	1.072	0.995	1.140	7.63
53)		3-Nitroaniline	0.143	0.187	0.252	0.298	0.311	0.310	0.299	0.257	26.09
54)	P	2,4-Dinitrophenol		0.025	0.036	0.057	0.069	0.076	0.085	0.058	40.36
55)		Dibenzofuran	1.930	1.775	1.751	1.743	1.713	1.581	1.466	1.709	8.67
56)	P	4-Nitrophenol		0.131	0.177	0.216	0.233	0.230	0.220	0.201	19.82
57)		2,4-Dinitrotol...	0.104	0.145	0.213	0.285	0.311	0.309	0.306	0.239	35.96
58)		Fluorene	1.493	1.403	1.351	1.317	1.273	1.186	1.071	1.299	10.74
59)		2,3,4,6-Tetrac...	0.252	0.267	0.312	0.334	0.334	0.323	0.305	0.304	10.65
60)		Diethylphthalate	1.324	1.264	1.302	1.313	1.300	1.215	1.126	1.263	5.61
61)		4-Chlorophenyl...	0.702	0.642	0.632	0.632	0.614	0.570	0.526	0.617	9.06
62)		4-Nitroaniline	0.144	0.177	0.233	0.272	0.287	0.281	0.269	0.238	23.57
63)		Azobenzene	1.346	1.260	1.275	1.279	1.278	1.198	1.098	1.248	6.33
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.022	0.034	0.055	0.065	0.071	0.075	0.054	39.23
66)	c	n-Nitrosodiphe...	0.727	0.686	0.693	0.712	0.689	0.653	0.623	0.683	5.11
67)		4-Bromophenyl-...	0.224	0.219	0.223	0.236	0.225	0.220	0.211	0.223	3.39
68)		Hexachlorobenzene	0.256	0.245	0.248	0.261	0.255	0.244	0.237	0.249	3.28
69)		Atrazine	0.166	0.172	0.186	0.190	0.190	0.182	0.174	0.180	5.29
70)	C	Pentachlorophenol		0.093	0.121	0.144	0.145	0.144	0.144	0.132	16.25
71)		Phenanthrene	1.218	1.114	1.119	1.112	1.064	0.995	0.940	1.080	8.45
72)		Anthracene	1.209	1.161	1.151	1.128	1.099	1.025	0.959	1.105	7.77
73)		Carbazole	1.125	1.047	1.061	1.033	0.996	0.935	0.857	1.008	8.77
74)		Di-n-butylphth...	0.986	1.006	1.088	1.069	1.045	0.988	0.912	1.013	5.88
75)	C	Fluoranthene	1.221	1.144	1.155	1.085	1.035	0.957	0.878	1.068	11.24
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.702	0.748	0.885	0.963	0.945	0.895	0.810	0.850	11.67
78)		Pyrene	1.833	1.801	1.849	2.026	1.937	1.833	1.635	1.845	6.54
79)	S	Terphenyl-d14	1.472	1.413	1.422	1.481	1.392	1.290	1.155	1.375	8.41
80)		Butylbenzylpht...	0.218	0.293	0.405	0.505	0.525	0.524	0.509	0.425	29.32
81)		Benzo(a)anthra...	1.379	1.320	1.332	1.438	1.388	1.316	1.225	1.343	5.06
82)		3,3'-Dichlorob...	0.286	0.317	0.380	0.442	0.450	0.451	0.435	0.394	17.37
83)		Chrysene	1.302	1.210	1.249	1.232	1.227	1.197	1.138	1.222	4.12
84)		Bis(2-ethylhex...	0.384	0.448	0.549	0.695	0.726	0.722	0.707	0.604	23.69
85)	c	Di-n-octyl pht...		0.668	0.875	1.262	1.320	1.347	1.329	1.133	25.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.323	1.384	1.466	1.613	1.556	1.490	1.422	1.465	6.78
88)		Benzo(b)fluora...	1.317	1.220	1.208	1.302	1.271	1.177	1.202	1.242	4.36
89)		Benzo(k)fluora...	1.211	1.159	1.222	1.145	1.146	1.110	0.962	1.136	7.59
90)	C	Benzo(a)pyrene	1.121	1.098	1.146	1.203	1.180	1.137	1.076	1.137	3.91
91)		Dibenzo(a,h)an...	1.075	1.131	1.197	1.312	1.271	1.192	1.144	1.189	6.90
92)		Benzo(g,h,i)pe...	1.076	1.138	1.204	1.308	1.267	1.213	1.162	1.195	6.55

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Apr 15 04:48:42 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024275.D 5 =BP024276.D 10 =BP024277.D 20 =BP024278.D 40 =BP024279.D 50 =BP024280.D 60 =BP024281.D 80 =BP0242
82.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.551	0.517	0.552	0.512	0.481	0.490	0.477	0.512	6.10
3)		Pyridine		1.265	1.280	1.422	1.396	1.333	1.383	1.378	1.351	4.43
4)		n-Nitrosodimet...		0.424	0.443	0.469	0.457	0.442	0.460	0.444	0.448	3.29
5)	S	2-Fluorophenol		1.123	1.145	1.262	1.254	1.210	1.277	1.196	1.210	4.93
6)		Aniline		1.439	1.487	1.636	1.587	1.403	1.428	1.380	1.480	6.52
7)	S	Phenol-d6		1.463	1.552	1.718	1.748	1.697	1.769	1.647	1.656	6.75
8)		2-Chlorophenol		1.260	1.297	1.412	1.399	1.359	1.400	1.328	1.350	4.30
9)		Benzaldehyde		0.943	0.934	0.942	0.836	0.732	0.726	0.621	0.819	15.70
10)	C	Phenol		1.475	1.565	1.720	1.750	1.698	1.779	1.643	1.661	6.54
11)		bis(2-Chloroet...		1.278	1.317	1.399	1.398	1.321	1.358	1.300	1.339	3.56
12)		1,3-Dichlorobe...		1.464	1.486	1.534	1.486	1.402	1.433	1.373	1.454	3.79
13)	C	1,4-Dichlorobe...		1.496	1.489	1.550	1.494	1.436	1.463	1.399	1.475	3.28
14)		1,2-Dichlorobe...		1.472	1.441	1.502	1.445	1.362	1.411	1.339	1.424	4.10
15)		Benzyl Alcohol		0.857	0.935	1.106	1.158	1.142	1.178	1.122	1.071	11.58
16)		2,2'-oxybis(1-...		1.452	1.496	1.517	1.514	1.405	1.397	1.348	1.447	4.54
17)		2-Methylphenol		0.915	1.002	1.123	1.140	1.105	1.150	1.087	1.075	7.97
18)		Hexachloroethane		0.532	0.537	0.558	0.542	0.521	0.533	0.510	0.533	2.88
19)	P	n-Nitroso-di-n...	0.941	1.008	1.008	1.088	1.084	1.041	1.038	0.989	1.025	4.76
20)		3+4-Methylphenols		1.224	1.365	1.560	1.592	1.567	1.607	1.525	1.491	9.57
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.470	0.487	0.522	0.519	0.490	0.495	0.483	0.495	3.85
23)	S	Nitrobenzene-d5		0.322	0.337	0.367	0.368	0.357	0.356	0.347	0.351	4.76
24)		Nitrobenzene		0.328	0.334	0.362	0.364	0.349	0.353	0.340	0.347	3.96
25)		Isophorone		0.575	0.601	0.653	0.673	0.650	0.654	0.639	0.635	5.41
26)	C	2-Nitrophenol		0.130	0.143	0.172	0.183	0.184	0.191	0.186	0.170	13.97
27)		2,4-Dimethylph...		0.180	0.194	0.219	0.226	0.225	0.228	0.221	0.213	8.81
28)		bis(2-Chloroet...		0.412	0.426	0.444	0.452	0.430	0.425	0.412	0.429	3.51
29)	C	2,4-Dichloroph...		0.242	0.268	0.297	0.308	0.307	0.311	0.302	0.291	8.94
30)		1,2,4-Trichlor...		0.308	0.305	0.318	0.321	0.309	0.315	0.306	0.311	2.00
31)		Naphthalene		1.044	1.054	1.091	1.079	1.037	1.048	1.023	1.054	2.27
32)		Benzoic acid			0.185	0.226	0.242	0.270	0.285	0.282	0.248	15.56
33)		4-Chloroaniline		0.328	0.349	0.389	0.397	0.378	0.379	0.378	0.371	6.46
34)	C	Hexachlorobuta...		0.181	0.181	0.186	0.189	0.181	0.182	0.182	0.183	1.62
35)		Caprolactam		0.085	0.092	0.111	0.112	0.115	0.121	0.115	0.107	12.53
36)	C	4-Chloro-3-met...		0.284	0.310	0.349	0.357	0.356	0.363	0.351	0.339	8.82
37)		2-Methylnaphth...		0.700	0.720	0.755	0.755	0.733	0.740	0.712	0.731	2.89
38)		1-Methylnaphth...		0.700	0.714	0.737	0.731	0.712	0.718	0.691	0.715	2.25

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.538	0.568	0.576	0.544	0.549	0.552	0.550	3.33
41)	P	Hexachlorocycl...	0.162	0.185	0.197	0.218	0.199	0.197	0.204	0.195	8.92
42)	S	2,4,6-Tribromo...	0.235	0.256	0.278	0.289	0.289	0.296	0.294	0.277	8.29
43)	C	2,4,6-Trichlor...	0.301	0.335	0.369	0.389	0.386	0.390	0.390	0.366	9.51
44)		2,4,5-Trichlor...	0.332	0.371	0.409	0.427	0.429	0.436	0.430	0.405	9.62
45)	S	2-Fluorobiphenyl	1.332	1.334	1.359	1.366	1.263	1.251	1.240	1.306	4.08
46)		1,1'-Biphenyl	1.454	1.489	1.528	1.529	1.434	1.428	1.429	1.470	3.07
47)		2-Chloronaphth...	1.063	1.100	1.135	1.139	1.085	1.090	1.078	1.099	2.60
48)		2-Nitroaniline	0.250	0.270	0.317	0.330	0.324	0.335	0.331	0.308	10.98
49)		Acenaphthylene	1.604	1.680	1.793	1.814	1.726	1.763	1.730	1.730	4.11
50)		Dimethylphthalate	1.429	1.416	1.495	1.495	1.460	1.460	1.426	1.454	2.22
51)		2,6-Dinitrotol...	0.264	0.290	0.319	0.325	0.319	0.328	0.317	0.309	7.58
52)	C	Acenaphthene	1.087	1.087	1.141	1.126	1.081	1.079	1.076	1.097	2.35
53)		3-Nitroaniline	0.250	0.289	0.338	0.354	0.342	0.340	0.358	0.325	12.25
54)	P	2,4-Dinitrophenol		0.125	0.163	0.186	0.196	0.210	0.211	0.182	18.22
55)		Dibenzofuran	1.801	1.807	1.871	1.833	1.746	1.768	1.723	1.793	2.84
56)	P	4-Nitrophenol	0.190	0.231	0.289	0.305	0.306	0.323	0.317	0.280	17.90
57)		2,4-Dinitrotol...	0.334	0.368	0.439	0.448	0.442	0.463	0.456	0.421	11.82
58)		Fluorene	1.376	1.397	1.454	1.398	1.368	1.366	1.356	1.388	2.40
59)		2,3,4,6-Tetrac...	0.327	0.351	0.380	0.389	0.387	0.390	0.389	0.373	6.57
60)		Diethylphthalate	1.451	1.484	1.528	1.550	1.499	1.499	1.481	1.499	2.16
61)		4-Chlorophenyl...	0.667	0.675	0.699	0.680	0.667	0.670	0.659	0.674	1.95
62)		4-Nitroaniline	0.263	0.300	0.353	0.369	0.364	0.380	0.376	0.344	12.99
63)		Azobenzene	1.269	1.383	1.446	1.431	1.385	1.385	1.344	1.378	4.26
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.095	0.118	0.131	0.134	0.140	0.138	0.126	13.50
66)	c	n-Nitrosodiphe...	0.567	0.585	0.616	0.630	0.591	0.608	0.580	0.597	3.71
67)		4-Bromophenyl-...	0.203	0.212	0.220	0.230	0.220	0.225	0.222	0.219	4.11
68)		Hexachlorobenzene	0.247	0.247	0.260	0.271	0.261	0.269	0.263	0.260	3.67
69)		Atrazine	0.176	0.167	0.134	0.121	0.162			0.152	15.57
70)	C	Pentachlorophenol	0.143	0.155	0.175	0.196	0.197	0.203	0.201	0.181	13.35
71)		Phenanthrene	1.098	1.086	1.117	1.127	1.070	1.082	1.058	1.091	2.27
72)		Anthracene	0.995	1.017	1.084	1.111	1.053	1.071	1.030	1.052	3.85
73)		Carbazole	0.968	0.998	1.060	1.084	1.014	1.037	1.031	1.027	3.78
74)		Di-n-butylphth...	1.147	1.230	1.253	1.398	1.310	1.338	1.284	1.280	6.30
75)	C	Fluoranthene	1.289	1.274	1.316	1.347	1.280	1.304	1.274	1.298	2.07
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.144	0.141	0.109	0.436	0.333	0.302	0.307	0.254	48.39
78)		Pyrene	1.192	1.236	1.345	1.305	1.294	1.305	1.219	1.271	4.38
79)	S	Terphenyl-d14	0.967	0.998	1.055	1.032	1.005	0.964	0.926	0.992	4.42
80)		Butylbenzylpht...	0.434	0.488	0.546	0.596	0.580	0.593	0.574	0.544	11.25
81)		Benzo(a)anthra...	1.195	1.214	1.292	1.293	1.234	1.253	1.221	1.243	3.08
82)		3,3'-Dichlorob...	0.345	0.383	0.431	0.486	0.463	0.485	0.460	0.436	12.30
83)		Chrysene	1.180	1.181	1.229	1.213	1.173	1.193	1.167	1.191	1.88
84)		Bis(2-ethylhex...	0.639	0.735	0.779	0.893	0.853	0.867	0.819	0.798	11.09
85)	c	Di-n-octyl pht...	0.945	1.093	1.222	1.461	1.430	1.486	1.446	1.297	16.46

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP041425.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.252	1.304	1.407	1.444	1.401	1.445	1.466	1.388	5.77
88)		Benzo(b)fluora...	1.130	1.174	1.217	1.258	1.196	1.205	1.212	1.199	3.30
89)		Benzo(k)fluora...	1.088	1.131	1.217	1.212	1.154	1.166	1.138	1.158	3.94
90)	C	Benzo(a)pyrene	0.939	0.971	1.057	1.091	1.053	1.070	1.058	1.034	5.44
91)		Dibenzo(a,h)an...	1.046	1.089	1.172	1.203	1.169	1.186	1.202	1.152	5.28
92)		Benzo(g,h,i)pe...	1.073	1.110	1.198	1.218	1.180	1.209	1.224	1.173	4.99

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: BNA_F Calibration Date/Time: 05/01/2025 10:17

Lab File ID: BF142250.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.454	1.532		5.4	
2-Fluorophenol	1.252	1.250		-0.2	
Phenol-d6	1.512	1.575		4.2	
1,4-Dichlorobenzene	1.475	1.526		3.5	20.0
2-Methylphenol	1.060	1.103		4.1	
3+4-Methylphenols	1.326	1.404		5.9	
Nitrobenzene-d5	0.304	0.333		9.5	
Hexachloroethane	0.483	0.505		4.6	
Nitrobenzene	0.299	0.320		7.0	
Hexachlorobutadiene	0.175	0.186		6.3	20.0
2,4,6-Trichlorophenol	0.349	0.354		1.4	20.0
2-Fluorobiphenyl	1.418	1.409		-0.6	
2,4,5-Trichlorophenol	0.367	0.386		5.2	
2,4-Dinitrotoluene	0.239	0.289		20.9	
2,4,6-Tribromophenol	0.182	0.196		7.7	
Hexachlorobenzene	0.249	0.257		3.2	
Pentachlorophenol	0.132	0.137		3.8	20.0
Terphenyl-d14	1.375	1.422		3.4	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: BNA_F Calibration Date/Time: 05/02/2025 10:39

Lab File ID: BF142274.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.454	1.384		-4.8	
2-Fluorophenol	1.252	1.195		-4.6	
Phenol-d6	1.512	1.457		-3.6	
1,4-Dichlorobenzene	1.475	1.364		-7.5	20.0
2-Methylphenol	1.060	1.005		-5.2	
3+4-Methylphenols	1.326	1.295		-2.3	
Nitrobenzene-d5	0.304	0.332		9.2	
Hexachloroethane	0.483	0.473		-2.1	
Nitrobenzene	0.299	0.315		5.4	
Hexachlorobutadiene	0.175	0.164		-6.3	20.0
2,4,6-Trichlorophenol	0.349	0.360		3.2	20.0
2-Fluorobiphenyl	1.418	1.293		-8.8	
2,4,5-Trichlorophenol	0.367	0.363		-1.1	
2,4-Dinitrotoluene	0.239	0.314		31.4	
2,4,6-Tribromophenol	0.182	0.190		4.4	
Hexachlorobenzene	0.249	0.232		-6.8	
Pentachlorophenol	0.132	0.137		3.8	20.0
Terphenyl-d14	1.375	1.344		-2.3	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG No.: Q1913

Instrument ID: BNA_P Calibration Date/Time: 05/01/2025 10:37

Lab File ID: BP024486.D Init. Calib. Date(s): 04/14/2025 04/14/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:06 17:13

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.351	1.120		-17.1	
2-Fluorophenol	1.210	1.140		-5.8	
Phenol-d6	1.656	1.494		-9.8	
1,4-Dichlorobenzene	1.475	1.388		-5.9	20.0
2-Methylphenol	1.075	1.000		-7.0	
3+4-Methylphenols	1.491	1.403		-5.9	
Nitrobenzene-d5	0.351	0.340		-3.1	
Hexachloroethane	0.533	0.513		-3.8	
Nitrobenzene	0.347	0.327		-5.8	
Hexachlorobutadiene	0.183	0.199		8.7	20.0
2,4,6-Trichlorophenol	0.366	0.391		6.8	20.0
2-Fluorobiphenyl	1.306	1.322		1.2	
2,4,5-Trichlorophenol	0.405	0.427		5.4	
2,4-Dinitrotoluene	0.421	0.448		6.4	
2,4,6-Tribromophenol	0.277	0.329		18.8	
Hexachlorobenzene	0.260	0.285		9.6	
Pentachlorophenol	0.181	0.199		9.9	20.0
Terphenyl-d14	0.992	0.998		0.6	

All other compounds must meet a minimum RRF of 0.010.

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

LAB CHRONICLE

OrderID:	Q1913	**OrderDate:**	4/29/2025 2:15:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1913-01	**WC-12-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP Pesticide	8081B		05/02/25	05/05/25	
Q1913-02	**WC-12-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	
Q1913-03	**WC-13-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP Pesticide	8081B		05/02/25	05/05/25	
Q1913-04	**WC-13-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1913 **Order ID:** Q1913

Client: AECOM **Project ID:** Meeker Ave Plumes Superfund Site RI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WC-13-A-202504								
Q1913-04	WC-13-A-202504	TCLP	Methoxychlor	0.12	J	0.11	0.50	ug/L
			Total Concentration:	**0.120**				

SAMPLE DATA

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	PB167774TB	SDG No.:	Q1913
Lab Sample ID:	PB167774TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088372.D	1	05/01/25 08:56	05/01/25 14:06	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		43 - 140	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		77 - 126	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	PB167805TB	SDG No.:	Q1913
Lab Sample ID:	PB167805TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088373.D	1	05/01/25 08:56	05/01/25 14:20	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.9		43 - 140	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		77 - 126	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-01	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088412.D	1	05/02/25 12:44	05/05/25 09:59	PB167848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.6		43 - 140	88%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.6		77 - 126	118%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-02	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088374.D	1	05/01/25 08:56	05/01/25 14:34	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.2		43 - 140	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.1		77 - 126	100%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-03	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088413.D	1	05/02/25 12:44	05/05/25 10:12	PB167848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.1		43 - 140	70%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.6		77 - 126	113%	SPK: 20

Comments:

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E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-04	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088375.D	1	05/01/25 08:56	05/01/25 14:47	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.12	J	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		43 - 140	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		77 - 126	92%	SPK: 20

Comments:

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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088121.D	PIBLK-PD088121.D	Decachlorobiphenyl	1	20	22.9	115		43	140
		Tetrachloro-m-xylene	1	20	20.1	101		77	126
		Decachlorobiphenyl	2	20	22.7	113		43	140
		Tetrachloro-m-xylene	2	20	20.9	104		77	126
I.BLK-PD088368.D	PIBLK-PD088368.D	Decachlorobiphenyl	1	20	20.7	103		43	140
		Tetrachloro-m-xylene	1	20	20.4	102		77	126
		Decachlorobiphenyl	2	20	18.9	94		43	140
		Tetrachloro-m-xylene	2	20	19.8	99		77	126
PB167820BL	PB167820BL	Decachlorobiphenyl	1	20	18.6	93		43	140
		Tetrachloro-m-xylene	1	20	18.0	90		77	126
		Decachlorobiphenyl	2	20	16.8	84		43	140
		Tetrachloro-m-xylene	2	20	18.5	92		77	126
PB167820BS	PB167820BS	Decachlorobiphenyl	1	20	20.5	102		43	140
		Tetrachloro-m-xylene	1	20	20.0	100		77	126
		Decachlorobiphenyl	2	20	18.7	93		43	140
		Tetrachloro-m-xylene	2	20	20.5	103		77	126
PB167774TB	PB167774TB	Decachlorobiphenyl	1	20	19.1	96		43	140
		Tetrachloro-m-xylene	1	20	18.4	92		77	126
		Decachlorobiphenyl	2	20	17.2	86		43	140
		Tetrachloro-m-xylene	2	20	18.9	94		77	126
PB167805TB	PB167805TB	Decachlorobiphenyl	1	20	18.9	95		43	140
		Tetrachloro-m-xylene	1	20	18.4	92		77	126
		Decachlorobiphenyl	2	20	17.1	85		43	140
		Tetrachloro-m-xylene	2	20	18.9	94		77	126
Q1913-02	WC-12-A-202504	Decachlorobiphenyl	1	20	19.2	96		43	140
		Tetrachloro-m-xylene	1	20	20.1	100		77	126
		Decachlorobiphenyl	2	20	17.3	86		43	140
		Tetrachloro-m-xylene	2	20	19.5	97		77	126
Q1913-04	WC-13-A-202504	Decachlorobiphenyl	1	20	19.3	97		43	140
		Tetrachloro-m-xylene	1	20	17.7	89		77	126
		Decachlorobiphenyl	2	20	16.6	83		43	140
		Tetrachloro-m-xylene	2	20	18.4	92		77	126
Q1901-08MS	B-167-SB01MS	Decachlorobiphenyl	1	20	20.8	104		43	140
		Tetrachloro-m-xylene	1	20	18.4	92		77	126
		Decachlorobiphenyl	2	20	19.0	95		43	140
		Tetrachloro-m-xylene	2	20	18.8	94		77	126
Q1901-08MSD	B-167-SB01MSD	Decachlorobiphenyl	1	20	20.8	104		43	140
		Tetrachloro-m-xylene	1	20	18.4	92		77	126
		Decachlorobiphenyl	2	20	19.0	95		43	140
		Tetrachloro-m-xylene	2	20	18.9	94		77	126
I.BLK-PD088383.D	PIBLK-PD088383.D	Decachlorobiphenyl	1	20	21.0	105		43	140

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Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088383.D	PIBLK-PD088383.D	Tetrachloro-m-xylene	1	20	20.4	102		77	126
		Decachlorobiphenyl	2	20	19.9	99		43	140
		Tetrachloro-m-xylene	2	20	19.9	100		77	126
I.BLK-PD088406.D	PIBLK-PD088406.D	Decachlorobiphenyl	1	20	16.6	83		43	140
		Tetrachloro-m-xylene	1	20	16.2	81		77	126
		Decachlorobiphenyl	2	20	14.9	75		43	140
		Tetrachloro-m-xylene	2	20	15.7	78		77	126
PB167848BL	PB167848BL	Decachlorobiphenyl	1	20	20.5	103		43	140
		Tetrachloro-m-xylene	1	20	19.3	96		77	126
		Decachlorobiphenyl	2	20	18.5	92		43	140
		Tetrachloro-m-xylene	2	20	19.2	96		77	126
PB167848BS	PB167848BS	Decachlorobiphenyl	1	20	22.1	111		43	140
		Tetrachloro-m-xylene	1	20	20.8	104		77	126
		Decachlorobiphenyl	2	20	20.2	101		43	140
		Tetrachloro-m-xylene	2	20	20.7	104		77	126
Q1913-01	WC-12-S-202504	Decachlorobiphenyl	1	20	17.6	88		43	140
		Tetrachloro-m-xylene	1	20	23.6	118		77	126
		Decachlorobiphenyl	2	20	15.8	79		43	140
		Tetrachloro-m-xylene	2	20	18.6	93		77	126
Q1913-03	WC-13-S-202504	Decachlorobiphenyl	1	20	14.1	70		43	140
		Tetrachloro-m-xylene	1	20	22.6	113		77	126
		Decachlorobiphenyl	2	20	12.6	63		43	140
		Tetrachloro-m-xylene	2	20	17.5	87		77	126
I.BLK-PD088414.D	PIBLK-PD088414.D	Decachlorobiphenyl	1	20	17.3	86		43	140
		Tetrachloro-m-xylene	1	20	16.2	81		77	126
		Decachlorobiphenyl	2	20	15.6	78		43	140
		Tetrachloro-m-xylene	2	20	15.5	78		77	126
Q1929-03MS	WC-A4-02-CMS	Decachlorobiphenyl	1	20	22.3	112		43	140
		Tetrachloro-m-xylene	1	20	19.0	95		77	126
		Decachlorobiphenyl	2	20	19.9	100		43	140
		Tetrachloro-m-xylene	2	20	15.5	77		77	126
Q1929-03MSD	WC-A4-02-CMSD	Decachlorobiphenyl	1	20	22.3	112		43	140
		Tetrachloro-m-xylene	1	20	18.9	95		77	126
		Decachlorobiphenyl	2	20	20.1	101		43	140
		Tetrachloro-m-xylene	2	20	15.8	79		77	126
I.BLK-PD088421.D	PIBLK-PD088421.D	Decachlorobiphenyl	1	20	19.4	97		43	140
		Tetrachloro-m-xylene	1	20	18.2	91		77	126
		Decachlorobiphenyl	2	20	18.0	90		43	140
		Tetrachloro-m-xylene	2	20	17.3	87		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B **DataFile :** PD088377.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**B-167-SB01MS**											
Q1901-08MS	gamma-BHC (Lindane)	5	0	5.50	ug/L	110				60	152	
	Heptachlor	5	0	5.40	ug/L	108				56	147	
	Heptachlor epoxide	5	0	5.60	ug/L	112				77	143	
	Endrin	5	0	5.50	ug/L	110				76	144	
	Methoxychlor	5	0	5.10	ug/L	102				70	142	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B **DataFile :** PD088378.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-167-SB01MSD**											
Q1901-08MSD	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		0		60	152	20
	Heptachlor	5	0	5.40	ug/L	108		0		56	147	20
	Heptachlor epoxide	5	0	5.50	ug/L	110		2		77	143	20
	Endrin	5	0	5.50	ug/L	110		0		76	144	20
	Methoxychlor	5	0	5.00	ug/L	100		2		70	142	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B **DataFile :** PD088417.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WC-A4-02-CMS**											
Q1929-03MS	gamma-BHC (Lindane)	5	0	5.50	ug/L	110				60	152	
	Heptachlor	5	0	5.50	ug/L	110				56	147	
	Heptachlor epoxide	5	0	5.60	ug/L	112				77	143	
	Endrin	5	0	5.70	ug/L	114				76	144	
	Methoxychlor	5	0	5.10	ug/L	102				70	142	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B **DataFile :** PD088418.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-A4-02-CMSD**											
Q1929-03MSD	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		0		60	152	20
	Heptachlor	5	0	5.50	ug/L	110		0		56	147	20
	Heptachlor epoxide	5	0	5.70	ug/L	114		2		77	143	20
	Endrin	5	0	5.70	ug/L	114		0		76	144	20
	Methoxychlor	5	0	5.10	ug/L	102		0		70	142	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B **Datafile :** PD088371.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167820BS	gamma-BHC (Lindane)	0.5	0.52	ug/L	104				82	129	
	Heptachlor	0.5	0.52	ug/L	104				79	127	
	Heptachlor epoxide	0.5	0.53	ug/L	106				81	124	
	Endrin	0.5	0.51	ug/L	102				81	128	
	Methoxychlor	0.5	0.46	ug/L	93				78	108	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8081B **Datafile :** PD088410.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167848BS	gamma-BHC (Lindane)	0.5	0.54	ug/L	108				82	129	
	Heptachlor	0.5	0.54	ug/L	108				79	127	
	Heptachlor epoxide	0.5	0.55	ug/L	110				81	124	
	Endrin	0.5	0.53	ug/L	106				81	128	
	Methoxychlor	0.5	0.49	ug/L	98				78	108	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167820BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab Sample ID: PB167820BL Lab File ID: PD088370.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/01/2025

Date Analyzed (1): 05/01/2025 Date Analyzed (2): 05/01/2025

Time Analyzed (1): 13:39 Time Analyzed (2): 13:39

Instrument ID (1): ECD_D Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167820BS	PB167820BS	PD088371.D	05/01/2025	05/01/2025
PB167774TB	PB167774TB	PD088372.D	05/01/2025	05/01/2025
PB167805TB	PB167805TB	PD088373.D	05/01/2025	05/01/2025
WC-12-A-202504	Q1913-02	PD088374.D	05/01/2025	05/01/2025
WC-13-A-202504	Q1913-04	PD088375.D	05/01/2025	05/01/2025
B-167-SB01MS	Q1901-08MS	PD088377.D	05/01/2025	05/01/2025
B-167-SB01MSD	Q1901-08MSD	PD088378.D	05/01/2025	05/01/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167848BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab Sample ID: PB167848BL Lab File ID: PD088409.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/02/2025

Date Analyzed (1): 05/05/2025 Date Analyzed (2): 05/05/2025

Time Analyzed (1): 09:04 Time Analyzed (2): 09:04

Instrument ID (1): ECD_D Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167848BS	PB167848BS	PD088410.D	05/05/2025	05/05/2025
WC-12-S-202504	Q1913-01	PD088412.D	05/05/2025	05/05/2025
WC-13-S-202504	Q1913-03	PD088413.D	05/05/2025	05/05/2025
WC-A4-02-CMS	Q1929-03MS	PD088417.D	05/05/2025	05/05/2025
WC-A4-02-CMSD	Q1929-03MSD	PD088418.D	05/05/2025	05/05/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167820BL	SDG No.:	Q1913
Lab Sample ID:	PB167820BL	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088370.D	1	05/01/25 08:56	05/01/25 13:39	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		43 - 140	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		77 - 126	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167848BL	SDG No.:	Q1913
Lab Sample ID:	PB167848BL	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088409.D	1	05/02/25 12:44	05/05/25 09:04	PB167848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.5		43 - 140	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		77 - 126	96%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/18/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/18/25
Client Sample ID:	PIBLK-PD088121.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PD088121.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088121.D	1		04/18/25	PD041825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.9		43 - 140	115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		77 - 126	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/01/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	PIBLK-PD088368.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PD088368.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088368.D	1		05/01/25	pd050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		43 - 140	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		77 - 126	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/01/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	PIBLK-PD088383.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PD088383.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088383.D	1		05/01/25	pd050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.0		43 - 140	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		77 - 126	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/05/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/05/25
Client Sample ID:	PIBLK-PD088406.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PD088406.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088406.D	1		05/05/25	pd050525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.6		43 - 140	83%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.2		77 - 126	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/05/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/05/25
Client Sample ID:	PIBLK-PD088414.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PD088414.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088414.D	1		05/05/25	pd050525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.3		43 - 140	86%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.2		77 - 126	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/05/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/05/25
Client Sample ID:	PIBLK-PD088421.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PD088421.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088421.D	1		05/05/25	pd050525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.4		43 - 140	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.2		77 - 126	91%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167820BS	SDG No.:	Q1913
Lab Sample ID:	PB167820BS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088371.D	1	05/01/25 08:56	05/01/25 13:53	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.52		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.52		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0096	0.050	ug/L
72-20-8	Endrin	0.51		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.46		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.5		43 - 140	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.5		77 - 126	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167848BS	SDG No.:	Q1913
Lab Sample ID:	PB167848BS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088410.D	1	05/02/25 12:44	05/05/25 09:18	PB167848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.54		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.54		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.55		0.0096	0.050	ug/L
72-20-8	Endrin	0.53		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.49		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.1		43 - 140	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		77 - 126	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/26/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1913
Lab Sample ID:	Q1901-08MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088377.D	1	05/01/25 08:56	05/01/25 15:15	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.096	0.50	ug/L
72-20-8	Endrin	5.50		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.10		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		43 - 140	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.8		77 - 126	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	WC-A4-02-CMS	SDG No.:	Q1913
Lab Sample ID:	Q1929-03MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088417.D	1	05/02/25 12:44	05/05/25 11:07	PB167848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.50		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.096	0.50	ug/L
72-20-8	Endrin	5.70		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.10		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.3		43 - 140	112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.0		77 - 126	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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Report of Analysis

Client:	AECOM	Date Collected:	04/26/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1913
Lab Sample ID:	Q1901-08MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088378.D	1	05/01/25 08:56	05/01/25 15:28	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.096	0.50	ug/L
72-20-8	Endrin	5.50		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.00		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		43 - 140	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		77 - 126	94%	SPK: 20

Comments:

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LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	WC-A4-02-CMSD	SDG No.:	Q1913
Lab Sample ID:	Q1929-03MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088418.D	1	05/02/25 12:44	05/05/25 11:21	PB167848

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.50		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.70		0.096	0.50	ug/L
72-20-8	Endrin	5.70		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.10		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.3		43 - 140	112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		77 - 126	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088124.D RT 075 = PD088125.D

RT 050 = PD088126.D RT 025 = PD088127.D RT 005 = PD088128.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.08	9.07	9.08	9.08	9.08	9.07	8.97	9.17
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.49	7.49	7.50	7.50	7.50	7.49	7.39	7.59
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088124.D RT 075 = PD088125.D

RT 050 = PD088126.D RT 025 = PD088127.D RT 005 = PD088128.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	8.09	8.08	8.08	8.08	8.08	8.08	7.98	8.18
Endrin	5.81	5.79	5.79	5.79	5.79	5.80	5.70	5.90
gamma-BHC (Lindane)	3.75	3.73	3.73	3.73	3.73	3.74	3.64	3.84
Heptachlor	4.10	4.09	4.09	4.09	4.09	4.09	3.99	4.19
Heptachlor epoxide	4.89	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Methoxychlor	6.77	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.90	2.88	2.88	2.88	2.88	2.89	2.79	2.99

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_D

Calibration Date(s): 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088124.D **CF 075 =** PD088125.D

CF 050 = PD088126.D **CF 025 =** PD088127.D **CF 005 =** PD088128.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3080820000	3141130000	3178140000	3290360000	3850090000	3308110000	9
Endrin	3128180000	3077300000	2935450000	2806460000	2965440000	2982570000	4
gamma-BHC (Lindane)	4507210000	4365130000	4155030000	3887470000	4022700000	4187510000	6
Heptachlor	4264490000	4159110000	3978190000	3781390000	4011590000	4038950000	5
Heptachlor epoxide	3670910000	3598060000	3486330000	3389810000	3724620000	3573950000	4
Methoxychlor	1461300000	1466360000	1467850000	1483290000	1618930000	1499540000	4
Tetrachloro-m-xylene	1982340000	2006790000	1938680000	1923660000	2135510000	1997400000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_D

Calibration Date(s): 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088124.D **CF 075 =** PD088125.D

CF 050 = PD088126.D **CF 025 =** PD088127.D **CF 005 =** PD088128.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	16767000000	17098200000	17470300000	18387600000	22674800000	18479600000	13
Endrin	16756200000	17001500000	17464500000	18215500000	21574100000	18202300000	11
gamma-BHC (Lindane)	20140800000	20226900000	20558100000	21137200000	25630400000	21538700000	11
Heptachlor	19826900000	20021500000	20522700000	21298800000	25320700000	21398100000	11
Heptachlor epoxide	17359900000	17576100000	18079700000	18879200000	22576700000	18894300000	11
Methoxychlor	8272330000	8467510000	8839240000	9290490000	10735700000	9121060000	11
Tetrachloro-m-xylene	13615300000	13685800000	14010800000	14551200000	17245000000	14621600000	10

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_D **Date(s) Analyzed:** 04/18/2025 04/18/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.72	4.62	4.82	161995000
		2	5.24	5.14	5.34	160780000
		3	5.95	5.85	6.05	666185000
		4	6.03	5.93	6.13	797101000
		5	6.87	6.77	6.97	133051000
Toxaphene	500	1	6.24	6.14	6.34	23597900
		2	6.44	6.34	6.54	34064600
		3	7.15	7.05	7.25	65326300
		4	7.57	7.47	7.67	82045400
		5	7.93	7.83	8.03	47715200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_D **Date(s) Analyzed:** 04/18/2025 04/18/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.91	3.81	4.01	767527000
		2	4.49	4.39	4.59	783082000
		3	5.13	5.03	5.23	2396830000
		4	5.19	5.09	5.29	2031740000
		5	6.09	5.99	6.19	931551000
Toxaphene	500	1	5.48	5.38	5.58	130682000
		2	5.65	5.55	5.75	89513500
		3	6.76	6.66	6.86	417352000
		4	7.20	7.10	7.30	302911000
		5	7.33	7.23	7.43	207761000

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 12:09 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 12:09 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088369.D **Time Analyzed:** 12:09

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.975	9.175	46.430	50.000	-7.1
Endrin	6.575	6.476	6.676	52.080	50.000	4.2
gamma-BHC (Lindane)	4.331	4.232	4.432	54.230	50.000	8.5
Heptachlor	4.930	4.831	5.031	53.020	50.000	6.0
Heptachlor epoxide	5.691	5.592	5.792	53.870	50.000	7.7
Methoxychlor	7.494	7.395	7.595	45.160	50.000	-9.7
Tetrachloro-m-xylene	3.551	3.452	3.652	52.750	50.000	5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088369.D **Time Analyzed:** 12:09

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.977	8.177	41.500	50.000	-17.0
Endrin	5.791	5.693	5.893	46.350	50.000	-7.3
gamma-BHC (Lindane)	3.731	3.633	3.833	48.020	50.000	-4.0
Heptachlor	4.084	3.986	4.186	46.300	50.000	-7.4
Heptachlor epoxide	4.875	4.777	4.977	48.240	50.000	-3.5
Methoxychlor	6.756	6.659	6.859	41.540	50.000	-16.9
Tetrachloro-m-xylene	2.882	2.783	2.983	48.750	50.000	-2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 17:19 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 17:19 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088384.D **Time Analyzed:** 17:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.077	8.975	9.175	47.420	50.000	-5.2
Endrin	6.577	6.476	6.676	52.460	50.000	4.9
gamma-BHC (Lindane)	4.333	4.232	4.432	53.820	50.000	7.6
Heptachlor	4.933	4.831	5.031	53.190	50.000	6.4
Heptachlor epoxide	5.694	5.592	5.792	53.690	50.000	7.4
Methoxychlor	7.496	7.395	7.595	47.380	50.000	-5.2
Tetrachloro-m-xylene	3.553	3.452	3.652	52.240	50.000	4.5

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088384.D **Time Analyzed:** 17:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.977	8.177	43.900	50.000	-12.2
Endrin	5.791	5.693	5.893	47.310	50.000	-5.4
gamma-BHC (Lindane)	3.731	3.633	3.833	48.110	50.000	-3.8
Heptachlor	4.085	3.986	4.186	46.890	50.000	-6.2
Heptachlor epoxide	4.875	4.777	4.977	48.060	50.000	-3.9
Methoxychlor	6.757	6.659	6.859	44.580	50.000	-10.8
Tetrachloro-m-xylene	2.882	2.783	2.983	48.420	50.000	-3.2

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/05/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 08:44 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/05/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 08:44 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088408.D **Time Analyzed:** 08:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.975	9.175	50.200	50.000	0.4
Endrin	6.575	6.476	6.676	54.180	50.000	8.4
gamma-BHC (Lindane)	4.331	4.232	4.432	56.770	50.000	13.5
Heptachlor	4.930	4.831	5.031	55.420	50.000	10.8
Heptachlor epoxide	5.691	5.592	5.792	55.740	50.000	11.5
Methoxychlor	7.493	7.395	7.595	49.590	50.000	-0.8
Tetrachloro-m-xylene	3.550	3.452	3.652	54.530	50.000	9.1

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088408.D **Time Analyzed:** 08:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.074	7.977	8.177	44.490	50.000	-11.0
Endrin	5.791	5.693	5.893	47.170	50.000	-5.7
gamma-BHC (Lindane)	3.731	3.633	3.833	48.880	50.000	-2.2
Heptachlor	4.084	3.986	4.186	46.430	50.000	-7.1
Heptachlor epoxide	4.874	4.777	4.977	49.060	50.000	-1.9
Methoxychlor	6.756	6.659	6.859	41.030	50.000	-17.9
Tetrachloro-m-xylene	2.882	2.783	2.983	49.100	50.000	-1.8

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/05/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 10:40 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/05/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 10:40 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088415.D **Time Analyzed:** 10:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.072	8.975	9.175	50.520	50.000	1.0
Endrin	6.574	6.476	6.676	53.970	50.000	7.9
gamma-BHC (Lindane)	4.330	4.232	4.432	56.130	50.000	12.3
Heptachlor	4.929	4.831	5.031	54.910	50.000	9.8
Heptachlor epoxide	5.691	5.592	5.792	55.230	50.000	10.5
Methoxychlor	7.492	7.395	7.595	49.610	50.000	-0.8
Tetrachloro-m-xylene	3.550	3.452	3.652	53.720	50.000	7.4

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088415.D **Time Analyzed:** 10:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.074	7.977	8.177	44.790	50.000	-10.4
Endrin	5.790	5.693	5.893	47.530	50.000	-4.9
gamma-BHC (Lindane)	3.730	3.633	3.833	48.340	50.000	-3.3
Heptachlor	4.084	3.986	4.186	46.860	50.000	-6.3
Heptachlor epoxide	4.874	4.777	4.977	48.350	50.000	-3.3
Methoxychlor	6.756	6.659	6.859	43.090	50.000	-13.8
Tetrachloro-m-xylene	2.881	2.783	2.983	48.350	50.000	-3.3

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/05/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 13:47 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.56	3.55	3.45	3.65	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.94	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.70	5.69	5.59	5.79	-0.01
Endrin	6.58	6.58	6.48	6.68	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/05/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 13:47 **Initial Calibration Time(s):** 13:56 14:51

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088422.D **Time Analyzed:** 13:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.080	8.975	9.175	51.710	50.000	3.4
Endrin	6.580	6.476	6.676	55.530	50.000	11.1
gamma-BHC (Lindane)	4.336	4.232	4.432	57.260	50.000	14.5
Heptachlor	4.935	4.831	5.031	55.950	50.000	11.9
Heptachlor epoxide	5.697	5.592	5.792	55.910	50.000	11.8
Methoxychlor	7.499	7.395	7.595	51.610	50.000	3.2
Tetrachloro-m-xylene	3.555	3.452	3.652	54.400	50.000	8.8

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/05/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088422.D **Time Analyzed:** 13:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.977	8.177	46.850	50.000	-6.3
Endrin	5.791	5.693	5.893	49.370	50.000	-1.3
gamma-BHC (Lindane)	3.731	3.633	3.833	49.300	50.000	-1.4
Heptachlor	4.084	3.986	4.186	48.290	50.000	-3.4
Heptachlor epoxide	4.875	4.777	4.977	49.290	50.000	-1.4
Methoxychlor	6.757	6.659	6.859	45.930	50.000	-8.1
Tetrachloro-m-xylene	2.881	2.783	2.983	48.930	50.000	-2.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088122.D **Date Analyzed:** 04/18/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 13:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.075	8.970	9.180	23.220	20.000	16.1
Tetrachloro-m-xylene	3.551	3.500	3.600	21.610	20.000	8.1
alpha-BHC	4.000	3.950	4.050	9.950	10.000	-0.5
beta-BHC	4.516	4.470	4.570	11.360	10.000	13.6
gamma-BHC (Lindane)	4.331	4.280	4.380	10.480	10.000	4.8
Endrin	6.576	6.510	6.650	51.530	50.000	3.1
4,4'-DDT	7.023	6.950	7.090	110.510	100.000	10.5
Methoxychlor	7.494	7.420	7.560	265.100	250.000	6.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088122.D **Date Analyzed:** 04/18/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 13:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	22.950	20.000	14.8
Tetrachloro-m-xylene	2.883	2.830	2.930	22.200	20.000	11.0
alpha-BHC	3.396	3.350	3.450	11.720	10.000	17.2
beta-BHC	4.028	3.980	4.080	12.460	10.000	24.6
gamma-BHC (Lindane)	3.732	3.680	3.780	11.580	10.000	15.8
Endrin	5.793	5.720	5.860	49.780	50.000	-0.4
4,4'-DDT	6.187	6.120	6.260	102.610	100.000	2.6
Methoxychlor	6.758	6.690	6.830	215.580	250.000	-13.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088365.D **Date Analyzed:** 05/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:55

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.970	9.170	20.730	20.000	3.7
Tetrachloro-m-xylene	3.550	3.500	3.600	21.750	20.000	8.8
alpha-BHC	3.999	3.950	4.050	9.880	10.000	-1.2
beta-BHC	4.515	4.460	4.570	11.390	10.000	13.9
gamma-BHC (Lindane)	4.330	4.280	4.380	10.360	10.000	3.6
Endrin	6.575	6.500	6.650	53.330	50.000	6.7
4,4'-DDT	7.021	6.950	7.090	95.920	100.000	-4.1
Methoxychlor	7.493	7.420	7.560	223.310	250.000	-10.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088365.D **Date Analyzed:** 05/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:55

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.074	7.970	8.170	18.740	20.000	-6.3
Tetrachloro-m-xylene	2.881	2.830	2.930	21.090	20.000	5.5
alpha-BHC	3.394	3.340	3.440	10.870	10.000	8.7
beta-BHC	4.026	3.980	4.080	11.230	10.000	12.3
gamma-BHC (Lindane)	3.730	3.680	3.780	10.780	10.000	7.8
Endrin	5.790	5.720	5.860	46.960	50.000	-6.1
4,4'-DDT	6.185	6.110	6.260	83.920	100.000	-16.1
Methoxychlor	6.755	6.680	6.830	168.520	250.000	-32.6

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088407.D **Date Analyzed:** 05/05/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.074	8.970	9.170	22.690	20.000	13.5
Tetrachloro-m-xylene	3.551	3.500	3.600	23.140	20.000	15.7
alpha-BHC	4.000	3.950	4.050	10.620	10.000	6.2
beta-BHC	4.515	4.460	4.570	12.000	10.000	20.0
gamma-BHC (Lindane)	4.331	4.280	4.380	11.000	10.000	10.0
Endrin	6.575	6.500	6.650	55.670	50.000	11.3
4,4'-DDT	7.022	6.950	7.090	101.120	100.000	1.1
Methoxychlor	7.494	7.420	7.560	232.760	250.000	-6.9

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088407.D **Date Analyzed:** 05/05/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.970	8.180	20.540	20.000	2.7
Tetrachloro-m-xylene	2.882	2.830	2.930	21.950	20.000	9.8
alpha-BHC	3.394	3.340	3.440	11.360	10.000	13.6
beta-BHC	4.026	3.980	4.080	11.750	10.000	17.5
gamma-BHC (Lindane)	3.731	3.680	3.780	11.250	10.000	12.5
Endrin	5.791	5.720	5.860	47.120	50.000	-5.8
4,4'-DDT	6.186	6.120	6.260	85.430	100.000	-14.6
Methoxychlor	6.756	6.690	6.830	161.660	250.000	-35.3

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Analytical Sequence

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/18/2025 04/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/18/2025	13:15	PD088121.D	9.07	3.55
PEM	PEM	04/18/2025	13:29	PD088122.D	9.08	3.55
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	9.08	3.55
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	9.08	3.55
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	9.07	3.55
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	9.08	3.55
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	9.08	3.55
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	9.08	3.55
PCHLORICC500	PCHLORICC500	04/18/2025	15:32	PD088131.D	9.07	3.55
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	9.07	3.55
PEM	PEM	05/01/2025	09:55	PD088365.D	9.07	3.55
I.BLK	I.BLK	05/01/2025	11:56	PD088368.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/01/2025	12:09	PD088369.D	9.07	3.55
PB167820BL	PB167820BL	05/01/2025	13:39	PD088370.D	9.09	3.56
PB167820BS	PB167820BS	05/01/2025	13:53	PD088371.D	9.08	3.55
PB167774TB	PB167774TB	05/01/2025	14:06	PD088372.D	9.07	3.55
PB167805TB	PB167805TB	05/01/2025	14:20	PD088373.D	9.07	3.55
WC-12-A-202504	Q1913-02	05/01/2025	14:34	PD088374.D	9.07	3.55
WC-13-A-202504	Q1913-04	05/01/2025	14:47	PD088375.D	9.07	3.55
B-167-SB01MS	Q1901-08MS	05/01/2025	15:15	PD088377.D	9.07	3.55
B-167-SB01MSD	Q1901-08MSD	05/01/2025	15:28	PD088378.D	9.07	3.55
I.BLK	I.BLK	05/01/2025	16:37	PD088383.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/01/2025	17:19	PD088384.D	9.08	3.55
I.BLK	I.BLK	05/05/2025	08:17	PD088406.D	9.07	3.55
PEM	PEM	05/05/2025	08:30	PD088407.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/05/2025	08:44	PD088408.D	9.07	3.55
PB167848BL	PB167848BL	05/05/2025	09:04	PD088409.D	9.08	3.56
PB167848BS	PB167848BS	05/05/2025	09:18	PD088410.D	9.07	3.55
WC-12-S-202504	Q1913-01	05/05/2025	09:59	PD088412.D	9.07	3.55
WC-13-S-202504	Q1913-03	05/05/2025	10:12	PD088413.D	9.07	3.55
I.BLK	I.BLK	05/05/2025	10:26	PD088414.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/05/2025	10:40	PD088415.D	9.07	3.55
WC-A4-02-CMS	Q1929-03MS	05/05/2025	11:07	PD088417.D	9.07	3.55
WC-A4-02-CMSD	Q1929-03MSD	05/05/2025	11:21	PD088418.D	9.07	3.55
I.BLK	I.BLK	05/05/2025	13:03	PD088421.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/05/2025	13:47	PD088422.D	9.08	3.56

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Analytical Sequence

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/18/2025 04/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/18/2025	13:15	PD088121.D	8.08	2.88
PEM	PEM	04/18/2025	13:29	PD088122.D	8.08	2.88
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	8.08	2.88
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	8.09	2.90
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	8.08	2.88
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	8.08	2.88
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	8.08	2.88
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	8.08	2.88
PCHLORICC500	PCHLORICC500	04/18/2025	15:32	PD088131.D	8.08	2.88
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	8.08	2.88
PEM	PEM	05/01/2025	09:55	PD088365.D	8.07	2.88
I.BLK	I.BLK	05/01/2025	11:56	PD088368.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/01/2025	12:09	PD088369.D	8.08	2.88
PB167820BL	PB167820BL	05/01/2025	13:39	PD088370.D	8.08	2.88
PB167820BS	PB167820BS	05/01/2025	13:53	PD088371.D	8.08	2.88
PB167774TB	PB167774TB	05/01/2025	14:06	PD088372.D	8.07	2.88
PB167805TB	PB167805TB	05/01/2025	14:20	PD088373.D	8.08	2.88
WC-12-A-202504	Q1913-02	05/01/2025	14:34	PD088374.D	8.08	2.88
WC-13-A-202504	Q1913-04	05/01/2025	14:47	PD088375.D	8.08	2.88
B-167-SB01MS	Q1901-08MS	05/01/2025	15:15	PD088377.D	8.08	2.88
B-167-SB01MSD	Q1901-08MSD	05/01/2025	15:28	PD088378.D	8.08	2.88
I.BLK	I.BLK	05/01/2025	16:37	PD088383.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/01/2025	17:19	PD088384.D	8.08	2.88
I.BLK	I.BLK	05/05/2025	08:17	PD088406.D	8.07	2.88
PEM	PEM	05/05/2025	08:30	PD088407.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/05/2025	08:44	PD088408.D	8.07	2.88
PB167848BL	PB167848BL	05/05/2025	09:04	PD088409.D	8.08	2.88
PB167848BS	PB167848BS	05/05/2025	09:18	PD088410.D	8.08	2.88
WC-12-S-202504	Q1913-01	05/05/2025	09:59	PD088412.D	8.07	2.88
WC-13-S-202504	Q1913-03	05/05/2025	10:12	PD088413.D	8.07	2.88
I.BLK	I.BLK	05/05/2025	10:26	PD088414.D	8.07	2.88
PSTDCCC050	PSTDCCC050	05/05/2025	10:40	PD088415.D	8.07	2.88
WC-A4-02-CMS	Q1929-03MS	05/05/2025	11:07	PD088417.D	8.07	2.88
WC-A4-02-CMSD	Q1929-03MSD	05/05/2025	11:21	PD088418.D	8.07	2.88
I.BLK	I.BLK	05/05/2025	13:03	PD088421.D	8.07	2.88
PSTDCCC050	PSTDCCC050	05/05/2025	13:47	PD088422.D	8.08	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
B-167-SB01MS

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Lab Sample ID: Q1901-08MS **Date(s) Analyzed:** 05/01/2025 05/01/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin	1	6.58	6.53	6.63	5.50	13.6
	2	5.79	5.74	5.84	4.80	
Methoxychlor	1	7.49	7.44	7.54	5.10	10.3
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	11.5
	2	3.73	3.68	3.78	4.90	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.09	4.04	4.14	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	5.60	13.3
	2	4.88	4.83	4.93	4.90	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MSD

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Lab Sample ID: Q1901-08MSD **Date(s) Analyzed:** 05/01/2025 05/01/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin	1	6.58	6.53	6.63	5.50	11.5
	2	5.79	5.74	5.84	4.90	
Methoxychlor	1	7.49	7.44	7.54	5.00	8.3
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	11.5
	2	3.73	3.68	3.78	4.90	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.09	4.04	4.14	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	5.50	11.5
	2	4.88	4.83	4.93	4.90	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB167820BS

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Lab Sample ID: PB167820BS **Date(s) Analyzed:** 05/01/2025 05/01/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	0.46	8.3
	2	6.76	6.71	6.81	0.43	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.52	8.6
	2	3.73	3.68	3.78	0.48	
Heptachlor	1	4.93	4.88	4.98	0.52	11.3
	2	4.08	4.03	4.13	0.46	
Heptachlor epoxide	1	5.69	5.64	5.74	0.53	9.9
	2	4.87	4.82	4.92	0.48	
Endrin	1	6.58	6.53	6.63	0.51	11.2
	2	5.79	5.74	5.84	0.46	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167848BS

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Lab Sample ID: PB167848BS **Date(s) Analyzed:** 05/05/2025 05/05/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	0.49	15.4
	2	6.76	6.71	6.81	0.42	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.54	11.1
	2	3.73	3.68	3.78	0.48	
Heptachlor	1	4.93	4.88	4.98	0.54	15.4
	2	4.09	4.04	4.14	0.46	
Heptachlor epoxide	1	5.69	5.64	5.74	0.55	11.8
	2	4.88	4.83	4.93	0.49	
Endrin	1	6.58	6.53	6.63	0.53	14.9
	2	5.79	5.74	5.84	0.46	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
WC-A4-02-CMS

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Lab Sample ID: Q1929-03MS **Date(s) Analyzed:** 05/05/2025 05/05/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	5.10	14.7
	2	6.76	6.71	6.81	4.40	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	20
	2	3.73	3.68	3.78	4.50	
Heptachlor	1	4.93	4.88	4.98	5.50	13.6
	2	4.08	4.03	4.13	4.80	
Heptachlor epoxide	1	5.69	5.64	5.74	5.60	13.3
	2	4.87	4.82	4.92	4.90	
Endrin	1	6.57	6.52	6.62	5.70	17.1
	2	5.79	5.74	5.84	4.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-A4-02-CMSD

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Lab Sample ID: Q1929-03MSD **Date(s) Analyzed:** 05/05/2025 05/05/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin	1	6.57	6.52	6.62	5.70	17.1
	2	5.79	5.74	5.84	4.80	
Methoxychlor	1	7.49	7.44	7.54	5.10	14.7
	2	6.76	6.71	6.81	4.40	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	20
	2	3.73	3.68	3.78	4.50	
Heptachlor	1	4.93	4.88	4.98	5.50	17.8
	2	4.08	4.03	4.13	4.60	
Heptachlor epoxide	1	5.69	5.64	5.74	5.70	15.1
	2	4.87	4.82	4.92	4.90	

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LAB CHRONICLE

OrderID:	Q1913	**OrderDate:**	4/29/2025 2:15:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1913-01	**WC-12-S-202504**	**SOIL**			**04/29/25**			**04/29/25**
			PCB	8082A		05/02/25	05/02/25	
			TCLP Pesticide	8081B		05/02/25	05/05/25	
Q1913-02	**WC-12-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	
			PCB	8082A		05/01/25	05/01/25	
Q1913-03	**WC-13-S-202504**	**SOIL**			**04/29/25**			**04/29/25**
			PCB	8082A		05/02/25	05/02/25	
			TCLP Pesticide	8081B		05/02/25	05/05/25	
Q1913-04	**WC-13-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP Pesticide	8081B		05/01/25	05/01/25	
			PCB	8082A		05/01/25	05/02/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1913 **Order ID:** Q1913

Client: AECOM **Project ID:** Meeker Ave Plumes Superfund Site RI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: 0.000

SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	80.5 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071757.D	1	05/02/25 09:45	05/02/25 20:09	PB167834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.90	U	4.90	21.1	ug/kg
11104-28-2	Aroclor-1221	5.00	U	5.00	21.1	ug/kg
11141-16-5	Aroclor-1232	4.60	U	4.60	21.1	ug/kg
53469-21-9	Aroclor-1242	5.00	U	5.00	21.1	ug/kg
12672-29-6	Aroclor-1248	7.30	U	7.30	21.1	ug/kg
11097-69-1	Aroclor-1254	4.00	U	4.00	21.1	ug/kg
37324-23-5	Aroclor-1262	6.20	U	6.20	21.1	ug/kg
11100-14-4	Aroclor-1268	4.50	U	4.50	21.1	ug/kg
11096-82-5	Aroclor-1260	4.00	U	4.00	21.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.8		32 - 144	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.2		32 - 175	136%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-02	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071719.D	1	05/01/25 08:45	05/01/25 23:53	PB167818

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.099	U	0.099	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.098	U	0.098	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.096	U	0.096	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.083	U	0.083	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.4		16 - 158	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		10 - 173	101%	SPK: 20

Comments:

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	83.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071758.D	1	05/02/25 09:45	05/02/25 20:26	PB167834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.4	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.4	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.4	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.4	ug/kg
12672-29-6	Aroclor-1248	7.10	U	7.10	20.4	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.4	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	20.4	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.4	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.4		32 - 144	132%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.8		32 - 175	84%	SPK: 20

Comments:

U = Not Detected
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MDL = Method Detection Limit
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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071720.D	1	05/01/25 08:45	05/02/25 00:09	PB167818

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.098	U	0.098	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.097	U	0.097	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.095	U	0.095	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.082	U	0.082	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.6		16 - 158	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		10 - 173	90%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP071388.D	PIBLK-PP071388.D	Tetrachloro-m-xylene	1	20	17.1	85		60	140
		Decachlorobiphenyl	1	20	17.6	88		60	140
		Tetrachloro-m-xylene	2	20	17.2	86		60	140
		Decachlorobiphenyl	2	20	17.6	88		60	140
I.BLK-PP071715.D	PIBLK-PP071715.D	Tetrachloro-m-xylene	1	20	15.9	80		60	140
		Decachlorobiphenyl	1	20	17.6	88		60	140
		Tetrachloro-m-xylene	2	20	16.6	83		60	140
		Decachlorobiphenyl	2	20	18.4	92		60	140
PB167818BL	PB167818BL	Tetrachloro-m-xylene	1	20	18.5	93		16	158
		Decachlorobiphenyl	1	20	19.6	98		10	173
		Tetrachloro-m-xylene	2	20	20.3	102		16	158
		Decachlorobiphenyl	2	20	20.6	103		10	173
PB167818BS	PB167818BS	Tetrachloro-m-xylene	1	20	19.8	99		16	158
		Decachlorobiphenyl	1	20	20.6	103		10	173
		Tetrachloro-m-xylene	2	20	20.9	104		16	158
		Decachlorobiphenyl	2	20	21.8	109		10	173
PB167818BSD	PB167818BSD	Tetrachloro-m-xylene	1	20	19.1	96		16	158
		Decachlorobiphenyl	1	20	20.5	103		10	173
		Tetrachloro-m-xylene	2	20	19.4	97		16	158
		Decachlorobiphenyl	2	20	23.1	115		10	173
Q1913-02	WC-12-A-202504	Tetrachloro-m-xylene	1	20	20.5	103		16	158
		Decachlorobiphenyl	1	20	19.9	99		10	173
		Tetrachloro-m-xylene	2	20	22.4	112		16	158
		Decachlorobiphenyl	2	20	20.1	101		10	173
Q1913-04	WC-13-A-202504	Tetrachloro-m-xylene	1	20	14.4	72		16	158
		Decachlorobiphenyl	1	20	16.8	84		10	173
		Tetrachloro-m-xylene	2	20	18.6	93		16	158
		Decachlorobiphenyl	2	20	17.9	90		10	173
I.BLK-PP071729.D	PIBLK-PP071729.D	Tetrachloro-m-xylene	1	20	16.5	83		60	140
		Decachlorobiphenyl	1	20	17.9	90		60	140
		Tetrachloro-m-xylene	2	20	19.0	95		60	140
		Decachlorobiphenyl	2	20	19.2	96		60	140
I.BLK-PP071735.D	PIBLK-PP071735.D	Tetrachloro-m-xylene	1	20	16.7	83		60	140
		Decachlorobiphenyl	1	20	18.2	91		60	140
		Tetrachloro-m-xylene	2	20	17.8	89		60	140
		Decachlorobiphenyl	2	20	20.1	101		60	140
PB167834BL	PB167834BL	Tetrachloro-m-xylene	1	20	20.1	100		32	144
		Decachlorobiphenyl	1	20	21.6	108		32	175
		Tetrachloro-m-xylene	2	20	20.8	104		32	144
		Decachlorobiphenyl	2	20	23.8	119		32	175
PB167834BS	PB167834BS	Tetrachloro-m-xylene	1	20	20.7	103		32	144

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Surrogate Summary

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB167834BS	PB167834BS	Decachlorobiphenyl	1	20	22.1	111		32	175
		Tetrachloro-m-xylene	2	20	20.0	100		32	144
		Decachlorobiphenyl	2	20	23.9	119		32	175
Q1928-01MS	MH-QMS	Tetrachloro-m-xylene	1	20	20.5	102		32	144
		Decachlorobiphenyl	1	20	19.3	97		32	175
		Tetrachloro-m-xylene	2	20	21.9	110		32	144
		Decachlorobiphenyl	2	20	22.0	110		32	175
Q1928-01MSD	MH-QMSD	Tetrachloro-m-xylene	1	20	20.2	101		32	144
		Decachlorobiphenyl	1	20	19.5	97		32	175
		Tetrachloro-m-xylene	2	20	20.1	101		32	144
		Decachlorobiphenyl	2	20	21.0	105		32	175
I.BLK-PP071750.D	PIBLK-PP071750.D	Tetrachloro-m-xylene	1	20	16.9	85		60	140
		Decachlorobiphenyl	1	20	18.6	93		60	140
		Tetrachloro-m-xylene	2	20	18.8	94		60	140
		Decachlorobiphenyl	2	20	20.3	101		60	140
Q1913-01	WC-12-S-202504	Tetrachloro-m-xylene	1	20	18.2	91		32	144
		Decachlorobiphenyl	1	20	24.9	124		32	175
		Tetrachloro-m-xylene	2	20	21.8	109		32	144
		Decachlorobiphenyl	2	20	27.2	136		32	175
Q1913-03	WC-13-S-202504	Tetrachloro-m-xylene	1	20	26.4	132		32	144
		Decachlorobiphenyl	1	20	16.8	84		32	175
		Tetrachloro-m-xylene	2	20	16.0	80		32	144
		Decachlorobiphenyl	2	20	15.5	77		32	175
I.BLK-PP071764.D	PIBLK-PP071764.D	Tetrachloro-m-xylene	1	20	16.5	82		60	140
		Decachlorobiphenyl	1	20	17.8	89		60	140
		Tetrachloro-m-xylene	2	20	18.8	94		60	140
		Decachlorobiphenyl	2	20	20.5	102		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A **DataFile :** PP071740.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**MH-QMS**											
Q1928-01MS	AR1016	191.1	0	198	ug/kg	104				55	146	
	AR1260	191.1	0	195	ug/kg	102				31	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A **DataFile :** PP071741.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**MH-QMSD**											
Q1928-01MSD	AR1016	190.8	0	186	ug/kg	97		7		55	146	20
	AR1260	190.8	0	182	ug/kg	95		7		31	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A **Datafile :** PP071717.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167818BS	AR1016	5	4.80	ug/L	96				61	112	
	AR1260	5	4.70	ug/L	94				66	113	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A **Datafile :** PP071718.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167818BSD	AR1016	5	4.50	ug/L	90	6			61	112	20
	AR1260	5	4.80	ug/L	96	2			66	113	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1913

Client: AECOM

Analytical Method: 8082A **Datafile :** PP071738.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167834BS	AR1016	166.5	157	ug/kg	94				71	120	
	AR1260	166.5	165	ug/kg	99				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167818BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab Sample ID: PB167818BL Lab File ID: PP071716.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/01/2025

Date Analyzed (1): 05/01/2025 Date Analyzed (2): 05/01/2025

Time Analyzed (1): 23:04 Time Analyzed (2): 23:04

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167818BS	PB167818BS	PP071717.D	05/01/2025	05/01/2025
PB167818BSD	PB167818BSD	PP071718.D	05/01/2025	05/01/2025
WC-12-A-202504	Q1913-02	PP071719.D	05/01/2025	05/01/2025
WC-13-A-202504	Q1913-04	PP071720.D	05/02/2025	05/02/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167834BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: Q1913 SAS No.: Q1913 SDG NO.: Q1913

Lab Sample ID: PB167834BL Lab File ID: PP071737.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/02/2025

Date Analyzed (1): 05/02/2025 Date Analyzed (2): 05/02/2025

Time Analyzed (1): 13:19 Time Analyzed (2): 13:19

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167834BS	PB167834BS	PP071738.D	05/02/2025	05/02/2025
MH-QMS	Q1928-01MS	PP071740.D	05/02/2025	05/02/2025
MH-QMSD	Q1928-01MSD	PP071741.D	05/02/2025	05/02/2025
WC-12-S-202504	Q1913-01	PP071757.D	05/02/2025	05/02/2025
WC-13-S-202504	Q1913-03	PP071758.D	05/02/2025	05/02/2025

COMMENTS:

CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP071389.D RT 750 = PP071390.D

RT 500 = PP071391.D RT 250 = PP071392.D RT 050 = PP071393.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.66	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1016-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1016-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1016-4	(4)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1016-5	(5)	6.14	6.14	6.15	6.14	6.14	6.14	6.04	6.24
Aroclor-1260-1	(1)	7.26	7.26	7.27	7.26	7.26	7.26	7.16	7.36
Aroclor-1260-2	(2)	7.51	7.51	7.52	7.52	7.52	7.52	7.42	7.62
Aroclor-1260-3	(3)	7.87	7.87	7.88	7.87	7.88	7.87	7.77	7.97
Aroclor-1260-4	(4)	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Aroclor-1260-5	(5)	8.42	8.42	8.42	8.42	8.42	8.42	8.32	8.52
Decachlorobiphenyl		10.23	10.23	10.24	10.23	10.24	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.52	4.51	4.52	4.51	4.41	4.61
Aroclor-1242-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1242-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1242-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1242-4	(4)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1242-5	(5)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Decachlorobiphenyl		10.23	10.24	10.24	10.23	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene		4.51	4.52	4.51	4.51	4.52	4.51	4.41	4.61
Aroclor-1248-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1248-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1248-3	(3)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1248-4	(4)	6.54	6.54	6.54	6.54	6.54	6.54	6.44	6.64
Aroclor-1248-5	(5)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Decachlorobiphenyl		10.24	10.24	10.24	10.24	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene		4.52	4.52	4.51	4.51	4.51	4.51	4.41	4.61
Aroclor-1254-1	(1)	6.52	6.52	6.52	6.52	6.52	6.52	6.42	6.62
Aroclor-1254-2	(2)	6.74	6.74	6.74	6.73	6.74	6.74	6.64	6.84
Aroclor-1254-3	(3)	7.10	7.10	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1254-4	(4)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1254-5	(5)	7.80	7.80	7.80	7.80	7.80	7.80	7.70	7.90
Decachlorobiphenyl		10.24	10.24	10.24	10.23	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene		4.52	4.52	4.52	4.51	4.51	4.51	4.41	4.61
Aroclor-1268-1	(1)	8.73	8.73	8.73	8.74	8.73	8.73	8.63	8.83
Aroclor-1268-2	(2)	8.83	8.83	8.83	8.83	8.83	8.83	8.73	8.93
Aroclor-1268-3	(3)	9.06	9.06	9.06	9.06	9.06	9.06	8.96	9.16
Aroclor-1268-4	(4)	9.48	9.48	9.48	9.48	9.48	9.48	9.38	9.58
Aroclor-1268-5	(5)	9.89	9.89	9.89	9.90	9.89	9.90	9.80	10.00

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.24	10.23	10.24	10.24	10.24	10.24	10.14	10.34
Tetrachloro-m-xylene	4.51	4.52	4.52	4.52	4.51	4.52	4.42	4.62

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP071389.D RT 750 = PP071390.D

RT 500 = PP071391.D RT 250 = PP071392.D RT 050 = PP071393.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1016-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-3	(3)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1016-4	(4)	5.13	5.13	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1016-5	(5)	5.35	5.35	5.35	5.35	5.35	5.35	5.25	5.45
Aroclor-1260-1	(1)	6.38	6.38	6.39	6.39	6.38	6.38	6.28	6.48
Aroclor-1260-2	(2)	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Aroclor-1260-3	(3)	6.73	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Aroclor-1260-4	(4)	7.20	7.20	7.20	7.20	7.20	7.20	7.10	7.30
Aroclor-1260-5	(5)	7.44	7.44	7.44	7.44	7.44	7.44	7.34	7.54
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1242-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1242-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-3	(3)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Aroclor-1242-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-5	(5)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1248-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1248-2	(2)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-3	(3)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-4	(4)	5.35	5.35	5.35	5.35	5.35	5.35	5.25	5.45
Aroclor-1248-5	(5)	5.74	5.74	5.74	5.74	5.74	5.74	5.64	5.84
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1254-1	(1)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1254-2	(2)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1254-3	(3)	6.25	6.26	6.25	6.26	6.26	6.26	6.16	6.36
Aroclor-1254-4	(4)	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Aroclor-1254-5	(5)	6.90	6.90	6.90	6.90	6.90	6.90	6.80	7.00
Decachlorobiphenyl		8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene		3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91
Aroclor-1268-1	(1)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Aroclor-1268-2	(2)	7.79	7.79	7.79	7.79	7.79	7.79	7.69	7.89
Aroclor-1268-3	(3)	7.99	7.99	7.99	7.99	7.99	7.99	7.89	8.09
Aroclor-1268-4	(4)	8.29	8.29	8.29	8.29	8.29	8.29	8.19	8.39
Aroclor-1268-5	(5)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
Tetrachloro-m-xylene	3.81	3.81	3.81	3.81	3.81	3.81	3.71	3.91

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP071389.D **CF 750 =** PP071390.D

CF 500 = PP071391.D **CF 250 =** PP071392.D **CF 050 =** PP071393.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	64709894	67652695	70083532	71128656	61674340	67049823	6
Aroclor-1016-2	(2)	98977911	102364897	107369074	108813892	95615840	102628323	5
Aroclor-1016-3	(3)	59905708	62127143	64296308	65849928	56056440	61647105	6
Aroclor-1016-4	(4)	50563747	52419789	53619076	54941428	44946700	51298148	8
Aroclor-1016-5	(5)	47772963	49344036	50670668	50888564	42515680	48238382	7
Aroclor-1260-1	(1)	90879847	94857525	98814986	99659744	95910940	96024608	4
Aroclor-1260-2	(2)	137163459	142386411	147498372	149887700	138450980	143077384	4
Aroclor-1260-3	(3)	110350751	114445481	117702804	126515524	91505860	112104084	12
Aroclor-1260-4	(4)	105570732	110780085	111211068	131260612	105501660	112864831	9
Aroclor-1260-5	(5)	220536830	229070229	228919678	255108180	199231240	226573231	9
Decachlorobiphenyl		1409816860	1467002307	1522583160	1539948480	1300700600	1448010281	7
Tetrachloro-m-xylene		1947183160	2005072840	2066603680	2100352680	1793966200	1982635712	6
Aroclor-1242-1	(1)	53870259	55684409	58494980	58676784	47130380	54771362	9
Aroclor-1242-2	(2)	81881116	85641493	90236470	89744200	77399340	84980524	6
Aroclor-1242-3	(3)	49423643	51294363	53309060	53836868	47752740	51123335	5
Aroclor-1242-4	(4)	41638031	42855355	45034468	44656444	36858500	42208560	8
Aroclor-1242-5	(5)	44955701	46392219	48330700	47956460	43817460	46290508	4
Decachlorobiphenyl		1368547670	1421241013	1488838040	1503303480	1179092600	1392204561	9
Tetrachloro-m-xylene		1868945350	1926494133	2017272340	2030390160	1613146400	1891249677	9
Aroclor-1248-1	(1)	42447397	43370463	44490672	45736348	38649560	42938888	6
Aroclor-1248-2	(2)	57932834	60215229	62023042	63285912	58705480	60432499	4
Aroclor-1248-3	(3)	65030901	68053485	69372090	70318056	61147600	66784426	6
Aroclor-1248-4	(4)	80777360	84441085	86910244	89142916	81782860	84610893	4
Aroclor-1248-5	(5)	76029464	78502729	80776474	83552224	78380620	79448302	4
Decachlorobiphenyl		1379130770	1440268240	1485619680	1521197800	1358343200	1436911938	5
Tetrachloro-m-xylene		1879191440	1925518227	1989640420	2037603040	1811949400	1928780505	5
Aroclor-1254-1	(1)	78574372	81246615	85577334	88598188	75759400	81951182	6
Aroclor-1254-2	(2)	121624435	125816099	132146328	137115708	118678260	127076166	6
Aroclor-1254-3	(3)	123432630	127799839	132981654	137623252	117036460	127774767	6
Aroclor-1254-4	(4)	112512019	116259037	121737436	124392856	112665620	117513394	5
Aroclor-1254-5	(5)	106399089	105922557	113785120	116153044	96391680	107730298	7
Decachlorobiphenyl		1410101810	1469202520	1526389740	1549706840	1328725400	1456825262	6
Tetrachloro-m-xylene		1888241120	1936990333	2012368600	2071565920	1722515200	1926336235	7
Aroclor-1268-1	(1)	299594266	309097848	319744804	331826088	282063800	308465361	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	251109850	259047004	267960354	275856908	228123960	256419615	7
Aroclor-1268-3	(3)	211915080	218354113	225284280	231505696	216470880	220706010	4
Aroclor-1268-4	(4)	93231632	96431025	99007040	98059984	82736300	93893196	7
Aroclor-1268-5	(5)	590082071	603740247	621062448	631335032	536707900	596585540	6
Decachlorobiphenyl		2486623660	2556709627	2669414960	2694667240	2263272000	2534137497	7
Tetrachloro-m-xylene		1883977950	1931567613	1982008260	2006991440	1590966000	1879102253	9

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_P **Calibration Date(s):** 04/22/2025 04/22/2025

Calibration Times: 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP071389.D **CF 750 =** PP071390.D

CF 500 = PP071391.D **CF 250 =** PP071392.D **CF 050 =** PP071393.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	48121828	49414308	53806128	56180596	60145020	53533576	9
Aroclor-1016-2	(2)	69736709	72096436	77213744	78520924	84250740	76363711	7
Aroclor-1016-3	(3)	38517048	40455577	43831736	45082616	43165080	42210411	6
Aroclor-1016-4	(4)	31206636	32814844	36123020	37095092	35190100	34485938	7
Aroclor-1016-5	(5)	39458687	41985771	45850608	46345748	48595640	44447291	8
Aroclor-1260-1	(1)	63219917	66123699	73727666	76350368	82074520	72299234	11
Aroclor-1260-2	(2)	77338708	77548395	89921718	91492956	101005300	87461415	12
Aroclor-1260-3	(3)	72062678	70944365	81698234	79344004	87888600	78387576	9
Aroclor-1260-4	(4)	57333188	56779915	65331750	68083052	68025140	63110609	9
Aroclor-1260-5	(5)	143809415	139161576	155842678	157512280	157560640	150777318	6
Decachlorobiphenyl		831147600	875337973	902319620	934998560	841460400	877052831	5
Tetrachloro-m-xylene		1380433570	1378340613	1415112020	1448341640	1420974200	1408640409	2
Aroclor-1242-1	(1)	42717527	44660211	47919806	49576672	46343800	46243603	6
Aroclor-1242-2	(2)	62346958	64901092	68295906	70279172	64290540	66022734	5
Aroclor-1242-3	(3)	34614031	35703872	38469574	40739776	32714120	36448275	9
Aroclor-1242-4	(4)	33518120	34659665	37548334	39683016	33143760	35710579	8
Aroclor-1242-5	(5)	41214500	42688541	44971456	47258656	41407120	43508055	6
Decachlorobiphenyl		815615080	851726400	897002660	917481280	766770800	849719244	7
Tetrachloro-m-xylene		1295159620	1325412680	1503876340	1432488040	1389045200	1389196376	6
Aroclor-1248-1	(1)	30996932	35945815	36538014	39256084	37796080	36106585	9
Aroclor-1248-2	(2)	43624561	47309389	48616518	53505512	51756020	48962400	8
Aroclor-1248-3	(3)	45791659	49899927	50774174	56002176	52959580	51085503	7
Aroclor-1248-4	(4)	53871444	58562581	58680784	64889280	67282380	60657294	9
Aroclor-1248-5	(5)	52150607	56290108	57608714	65271236	60133720	58290877	8
Decachlorobiphenyl		826375100	860756013	900400040	940375840	921771600	889935719	5
Tetrachloro-m-xylene		1324712230	1514156880	1548203640	1434858960	1416930600	1447772462	6
Aroclor-1254-1	(1)	81690839	87361264	89755404	97285536	100908960	91400401	8
Aroclor-1254-2	(2)	70045476	75469849	77317914	83154376	87573280	78712179	9
Aroclor-1254-3	(3)	109725744	114103376	120096818	124380164	124235440	118508308	5
Aroclor-1254-4	(4)	70169900	74068720	77810162	81877428	81901880	77165618	7
Aroclor-1254-5	(5)	92229111	96109599	104690794	107384400	106924600	101467701	7
Decachlorobiphenyl		846307500	875335867	916104900	955261880	868223800	892246789	5
Tetrachloro-m-xylene		1390553300	1501013893	1450901500	1518608160	1468503000	1465915971	3
Aroclor-1268-1	(1)	181860271	188460193	203483780	205414332	201904640	196224643	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	154801411	159518377	172755008	173272408	170561360	166181713	5
Aroclor-1268-3	(3)	128491160	133089205	143083692	144773184	135469120	136981272	5
Aroclor-1268-4	(4)	56964280	59695839	63521398	64177792	55793320	60030526	6
Aroclor-1268-5	(5)	367021219	377695863	385175068	387479012	342861840	372046600	5
Decachlorobiphenyl		1499051200	1546040093	1602790460	1652739760	1464953600	1553115023	5
Tetrachloro-m-xylene		1476470990	1445952813	1464214380	1457737600	1300882000	1429051557	5

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_P **Date(s) Analyzed:** 04/22/2025 04/22/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.72	4.62	4.82	24116800
		2	4.80	4.70	4.90	18016900
		3	4.88	4.78	4.98	56611200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.88	4.78	4.98	44912000
		2	5.40	5.30	5.50	23013000
		3	5.69	5.59	5.79	47217600
		4	5.85	5.75	5.95	23179400
		5	5.94	5.84	6.04	16145700
Aroclor-1262	500	1	8.10	8.00	8.20	144491000
		2	8.42	8.32	8.52	274186000
		3	8.74	8.64	8.84	182878000
		4	8.82	8.72	8.92	134211000
		5	9.48	9.38	9.58	88162000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Instrument ID: ECD_P **Date(s) Analyzed:** 04/22/2025 04/22/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.02	3.92	4.12	21995000
		2	4.11	4.01	4.21	16561700
		3	4.19	4.09	4.29	48477000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.19	4.09	4.29	38317800
		2	4.92	4.82	5.02	38187400
		3	5.09	4.99	5.19	21175200
		4	5.18	5.08	5.28	18540400
		5	5.35	5.25	5.45	19901900
Aroclor-1262	500	1	6.94	6.84	7.04	113612000
		2	7.20	7.10	7.30	92339400
		3	7.72	7.62	7.82	75694400
		4	7.79	7.69	7.89	124826000
		5	8.29	8.19	8.39	55493200

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 21:27 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.01
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.84	5.85	5.75	5.95	0.01
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.22	10.24	10.14	10.34	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/01/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 21:27 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.56	6.57	6.47	6.67	0.01
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/01/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071711.D **Time Analyzed:** 21:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.663	5.571	5.771	494.440	500.000	-1.1
Aroclor-1016-2	5.685	5.593	5.793	479.570	500.000	-4.1
Aroclor-1016-3	5.747	5.654	5.854	480.090	500.000	-4.0
Aroclor-1016-4	5.844	5.752	5.952	485.850	500.000	-2.8
Aroclor-1016-5	6.137	6.045	6.245	471.970	500.000	-5.6
Aroclor-1260-1	7.255	7.165	7.365	497.220	500.000	-0.6
Aroclor-1260-2	7.510	7.418	7.618	481.060	500.000	-3.8
Aroclor-1260-3	7.868	7.777	7.977	489.720	500.000	-2.1
Aroclor-1260-4	8.092	8.002	8.202	473.900	500.000	-5.2
Aroclor-1260-5	8.412	8.322	8.522	493.150	500.000	-1.4
Decachlorobiphenyl	10.223	10.137	10.337	50.290	50.000	0.6
Tetrachloro-m-xylene	4.510	4.417	4.617	47.870	50.000	-4.3

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/01/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071711.D **Time Analyzed:** 21:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.891	4.798	4.998	481.740	500.000	-3.7
Aroclor-1016-2	4.910	4.816	5.016	482.850	500.000	-3.4
Aroclor-1016-3	5.086	4.993	5.193	498.410	500.000	-0.3
Aroclor-1016-4	5.128	5.036	5.236	495.700	500.000	-0.9
Aroclor-1016-5	5.342	5.250	5.450	504.660	500.000	0.9
Aroclor-1260-1	6.376	6.285	6.485	510.780	500.000	2.2
Aroclor-1260-2	6.564	6.473	6.673	498.980	500.000	-0.2
Aroclor-1260-3	6.717	6.627	6.827	483.020	500.000	-3.4
Aroclor-1260-4	7.189	7.098	7.298	491.580	500.000	-1.7
Aroclor-1260-5	7.429	7.339	7.539	495.450	500.000	-0.9
Decachlorobiphenyl	8.836	8.749	8.949	53.350	50.000	6.7
Tetrachloro-m-xylene	3.807	3.712	3.912	50.760	50.000	1.5

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 02:52 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 02:52 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071725.D **Time Analyzed:** 02:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.665	5.571	5.771	490.410	500.000	-1.9
Aroclor-1016-2	5.686	5.593	5.793	485.270	500.000	-2.9
Aroclor-1016-3	5.748	5.654	5.854	483.700	500.000	-3.3
Aroclor-1016-4	5.846	5.752	5.952	478.380	500.000	-4.3
Aroclor-1016-5	6.139	6.045	6.245	480.660	500.000	-3.9
Aroclor-1260-1	7.257	7.165	7.365	545.630	500.000	9.1
Aroclor-1260-2	7.511	7.418	7.618	501.340	500.000	0.3
Aroclor-1260-3	7.869	7.777	7.977	494.860	500.000	-1.0
Aroclor-1260-4	8.094	8.002	8.202	486.430	500.000	-2.7
Aroclor-1260-5	8.413	8.322	8.522	499.420	500.000	-0.1
Decachlorobiphenyl	10.226	10.137	10.337	51.370	50.000	2.7
Tetrachloro-m-xylene	4.511	4.417	4.617	48.180	50.000	-3.6

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071725.D **Time Analyzed:** 02:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.893	4.798	4.998	479.500	500.000	-4.1
Aroclor-1016-2	4.911	4.816	5.016	483.950	500.000	-3.2
Aroclor-1016-3	5.088	4.993	5.193	493.560	500.000	-1.3
Aroclor-1016-4	5.129	5.036	5.236	492.920	500.000	-1.4
Aroclor-1016-5	5.343	5.250	5.450	525.370	500.000	5.1
Aroclor-1260-1	6.378	6.285	6.485	518.250	500.000	3.7
Aroclor-1260-2	6.566	6.473	6.673	510.590	500.000	2.1
Aroclor-1260-3	6.719	6.627	6.827	505.300	500.000	1.1
Aroclor-1260-4	7.190	7.098	7.298	500.150	500.000	0.0
Aroclor-1260-5	7.431	7.339	7.539	512.030	500.000	2.4
Decachlorobiphenyl	8.839	8.749	8.949	50.470	50.000	0.9
Tetrachloro-m-xylene	3.809	3.712	3.912	52.380	50.000	4.8

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 08:14 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.01
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.84	5.85	5.75	5.95	0.01
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 08:14 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071731.D **Time Analyzed:** 08:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.663	5.571	5.771	498.980	500.000	-0.2
Aroclor-1016-2	5.685	5.593	5.793	501.490	500.000	0.3
Aroclor-1016-3	5.747	5.654	5.854	497.340	500.000	-0.5
Aroclor-1016-4	5.844	5.752	5.952	502.000	500.000	0.4
Aroclor-1016-5	6.137	6.045	6.245	498.000	500.000	-0.4
Aroclor-1260-1	7.255	7.165	7.365	543.030	500.000	8.6
Aroclor-1260-2	7.509	7.418	7.618	516.520	500.000	3.3
Aroclor-1260-3	7.867	7.777	7.977	520.850	500.000	4.2
Aroclor-1260-4	8.093	8.002	8.202	507.950	500.000	1.6
Aroclor-1260-5	8.412	8.322	8.522	524.890	500.000	5.0
Decachlorobiphenyl	10.225	10.137	10.337	53.410	50.000	6.8
Tetrachloro-m-xylene	4.510	4.417	4.617	50.560	50.000	1.1

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071731.D **Time Analyzed:** 08:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.891	4.798	4.998	515.080	500.000	3.0
Aroclor-1016-2	4.909	4.816	5.016	530.310	500.000	6.1
Aroclor-1016-3	5.086	4.993	5.193	545.890	500.000	9.2
Aroclor-1016-4	5.128	5.036	5.236	540.360	500.000	8.1
Aroclor-1016-5	5.342	5.250	5.450	563.040	500.000	12.6
Aroclor-1260-1	6.376	6.285	6.485	556.270	500.000	11.3
Aroclor-1260-2	6.565	6.473	6.673	542.730	500.000	8.5
Aroclor-1260-3	6.717	6.627	6.827	538.540	500.000	7.7
Aroclor-1260-4	7.188	7.098	7.298	562.110	500.000	12.4
Aroclor-1260-5	7.430	7.339	7.539	563.520	500.000	12.7
Decachlorobiphenyl	8.837	8.749	8.949	56.150	50.000	12.3
Tetrachloro-m-xylene	3.807	3.712	3.912	51.730	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 16:37 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.10	8.10	8.00	8.20	0.00
Aroclor-1260-5	(5)	8.42	8.42	8.32	8.52	0.00
Tetrachloro-m-xylene		4.52	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.23	10.24	10.14	10.34	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 16:37 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.35	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071746.D **Time Analyzed:** 16:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.668	5.571	5.771	492.260	500.000	-1.5
Aroclor-1016-2	5.690	5.593	5.793	501.960	500.000	0.4
Aroclor-1016-3	5.752	5.654	5.854	502.050	500.000	0.4
Aroclor-1016-4	5.849	5.752	5.952	501.980	500.000	0.4
Aroclor-1016-5	6.142	6.045	6.245	498.240	500.000	-0.4
Aroclor-1260-1	7.261	7.165	7.365	544.810	500.000	9.0
Aroclor-1260-2	7.514	7.418	7.618	508.260	500.000	1.7
Aroclor-1260-3	7.873	7.777	7.977	507.380	500.000	1.5
Aroclor-1260-4	8.098	8.002	8.202	493.200	500.000	-1.4
Aroclor-1260-5	8.417	8.322	8.522	516.130	500.000	3.2
Decachlorobiphenyl	10.231	10.137	10.337	52.670	50.000	5.3
Tetrachloro-m-xylene	4.515	4.417	4.617	49.170	50.000	-1.7

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071746.D **Time Analyzed:** 16:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.894	4.798	4.998	538.400	500.000	7.7
Aroclor-1016-2	4.912	4.816	5.016	544.140	500.000	8.8
Aroclor-1016-3	5.089	4.993	5.193	550.190	500.000	10.0
Aroclor-1016-4	5.131	5.036	5.236	538.320	500.000	7.7
Aroclor-1016-5	5.345	5.250	5.450	589.120	500.000	17.8
Aroclor-1260-1	6.379	6.285	6.485	556.160	500.000	11.2
Aroclor-1260-2	6.568	6.473	6.673	541.960	500.000	8.4
Aroclor-1260-3	6.721	6.627	6.827	555.050	500.000	11.0
Aroclor-1260-4	7.191	7.098	7.298	558.830	500.000	11.8
Aroclor-1260-5	7.433	7.339	7.539	564.900	500.000	13.0
Decachlorobiphenyl	8.841	8.749	8.949	55.410	50.000	10.8
Tetrachloro-m-xylene	3.810	3.712	3.912	51.880	50.000	3.8

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 22:20 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.01
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.01
Aroclor-1016-5	(5)	6.14	6.15	6.05	6.25	0.01
Aroclor-1260-1	(1)	7.26	7.27	7.17	7.37	0.01
Aroclor-1260-2	(2)	7.51	7.52	7.42	7.62	0.01
Aroclor-1260-3	(3)	7.87	7.88	7.78	7.98	0.01
Aroclor-1260-4	(4)	8.09	8.10	8.00	8.20	0.01
Aroclor-1260-5	(5)	8.41	8.42	8.32	8.52	0.01
Tetrachloro-m-xylene		4.51	4.52	4.42	4.62	0.01
Decachlorobiphenyl		10.22	10.24	10.14	10.34	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

Continuing Calib Date: 05/02/2025 **Initial Calibration Date(s):** 04/22/2025 04/22/2025

Continuing Calib Time: 22:20 **Initial Calibration Time(s):** 10:29 17:49

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-2	(2)	4.91	4.92	4.82	5.02	0.01
Aroclor-1016-3	(3)	5.09	5.09	4.99	5.19	0.00
Aroclor-1016-4	(4)	5.13	5.14	5.04	5.24	0.01
Aroclor-1016-5	(5)	5.34	5.35	5.25	5.45	0.01
Aroclor-1260-1	(1)	6.38	6.39	6.29	6.49	0.01
Aroclor-1260-2	(2)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-3	(3)	6.72	6.73	6.63	6.83	0.01
Aroclor-1260-4	(4)	7.19	7.20	7.10	7.30	0.01
Aroclor-1260-5	(5)	7.43	7.44	7.34	7.54	0.01
Tetrachloro-m-xylene		3.81	3.81	3.71	3.91	0.00
Decachlorobiphenyl		8.84	8.85	8.75	8.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071760.D **Time Analyzed:** 22:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.663	5.571	5.771	494.870	500.000	-1.0
Aroclor-1016-2	5.685	5.593	5.793	492.880	500.000	-1.4
Aroclor-1016-3	5.748	5.654	5.854	489.500	500.000	-2.1
Aroclor-1016-4	5.845	5.752	5.952	492.060	500.000	-1.6
Aroclor-1016-5	6.137	6.045	6.245	489.340	500.000	-2.1
Aroclor-1260-1	7.256	7.165	7.365	534.710	500.000	6.9
Aroclor-1260-2	7.510	7.418	7.618	500.240	500.000	0.0
Aroclor-1260-3	7.868	7.777	7.977	497.090	500.000	-0.6
Aroclor-1260-4	8.092	8.002	8.202	484.830	500.000	-3.0
Aroclor-1260-5	8.411	8.322	8.522	503.610	500.000	0.7
Decachlorobiphenyl	10.224	10.137	10.337	51.400	50.000	2.8
Tetrachloro-m-xylene	4.510	4.417	4.617	49.600	50.000	-0.8

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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM **Case No.:** Q1913 **SAS No.:** Q1913 **SDG NO.:** Q1913

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/22/2025 04/22/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071760.D **Time Analyzed:** 22:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.893	4.798	4.998	538.240	500.000	7.6
Aroclor-1016-2	4.911	4.816	5.016	542.610	500.000	8.5
Aroclor-1016-3	5.088	4.993	5.193	552.880	500.000	10.6
Aroclor-1016-4	5.130	5.036	5.236	536.700	500.000	7.3
Aroclor-1016-5	5.344	5.250	5.450	583.930	500.000	16.8
Aroclor-1260-1	6.379	6.285	6.485	550.110	500.000	10.0
Aroclor-1260-2	6.566	6.473	6.673	535.140	500.000	7.0
Aroclor-1260-3	6.719	6.627	6.827	529.890	500.000	6.0
Aroclor-1260-4	7.190	7.098	7.298	540.990	500.000	8.2
Aroclor-1260-5	7.432	7.339	7.539	523.090	500.000	4.6
Decachlorobiphenyl	8.838	8.749	8.949	53.640	50.000	7.3
Tetrachloro-m-xylene	3.809	3.712	3.912	54.140	50.000	8.3

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Analytical Sequence

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/22/2025 04/22/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/22/2025	10:13	PP071388.D	10.23	4.51
AR1660ICC1000	AR1660ICC1000	04/22/2025	10:29	PP071389.D	10.23	4.51
AR1660ICC750	AR1660ICC750	04/22/2025	10:45	PP071390.D	10.23	4.51
AR1660ICC500	AR1660ICC500	04/22/2025	11:02	PP071391.D	10.24	4.52
AR1660ICC250	AR1660ICC250	04/22/2025	11:18	PP071392.D	10.23	4.51
AR1660ICC050	AR1660ICC050	04/22/2025	11:34	PP071393.D	10.24	4.52
AR1221ICC500	AR1221ICC500	04/22/2025	11:51	PP071394.D	10.23	4.51
AR1232ICC500	AR1232ICC500	04/22/2025	12:07	PP071395.D	10.23	4.52
AR1242ICC1000	AR1242ICC1000	04/22/2025	12:23	PP071396.D	10.23	4.51
AR1242ICC750	AR1242ICC750	04/22/2025	12:39	PP071397.D	10.24	4.52
AR1242ICC500	AR1242ICC500	04/22/2025	12:56	PP071398.D	10.24	4.51
AR1242ICC250	AR1242ICC250	04/22/2025	13:12	PP071399.D	10.23	4.51
AR1242ICC050	AR1242ICC050	04/22/2025	13:28	PP071400.D	10.24	4.52
AR1248ICC1000	AR1248ICC1000	04/22/2025	13:45	PP071401.D	10.24	4.52
AR1248ICC750	AR1248ICC750	04/22/2025	14:01	PP071402.D	10.24	4.52
AR1248ICC500	AR1248ICC500	04/22/2025	14:17	PP071403.D	10.24	4.51
AR1248ICC250	AR1248ICC250	04/22/2025	14:33	PP071404.D	10.24	4.51
AR1248ICC050	AR1248ICC050	04/22/2025	14:50	PP071405.D	10.24	4.51
AR1254ICC1000	AR1254ICC1000	04/22/2025	15:06	PP071406.D	10.24	4.52
AR1254ICC750	AR1254ICC750	04/22/2025	15:22	PP071407.D	10.24	4.52
AR1254ICC500	AR1254ICC500	04/22/2025	15:38	PP071408.D	10.24	4.52
AR1254ICC250	AR1254ICC250	04/22/2025	15:55	PP071409.D	10.23	4.51
AR1254ICC050	AR1254ICC050	04/22/2025	16:11	PP071410.D	10.24	4.51
AR1262ICC500	AR1262ICC500	04/22/2025	16:27	PP071411.D	10.24	4.52
AR1268ICC1000	AR1268ICC1000	04/22/2025	16:44	PP071412.D	10.24	4.51
AR1268ICC750	AR1268ICC750	04/22/2025	17:00	PP071413.D	10.23	4.52
AR1268ICC500	AR1268ICC500	04/22/2025	17:16	PP071414.D	10.24	4.52
AR1268ICC250	AR1268ICC250	04/22/2025	17:33	PP071415.D	10.24	4.52
AR1268ICC050	AR1268ICC050	04/22/2025	17:49	PP071416.D	10.24	4.51
AR1660CCC500	AR1660CCC500	05/01/2025	21:27	PP071711.D	10.22	4.51
I.BLK	I.BLK	05/01/2025	22:48	PP071715.D	10.23	4.51
PB167818BL	PB167818BL	05/01/2025	23:04	PP071716.D	10.22	4.51
PB167818BS	PB167818BS	05/01/2025	23:21	PP071717.D	10.23	4.51
PB167818BSD	PB167818BSD	05/01/2025	23:37	PP071718.D	10.22	4.51
WC-12-A-202504	Q1913-02	05/01/2025	23:53	PP071719.D	10.23	4.51
WC-13-A-202504	Q1913-04	05/02/2025	00:09	PP071720.D	10.23	4.51
AR1660CCC500	AR1660CCC500	05/02/2025	02:52	PP071725.D	10.23	4.51
I.BLK	I.BLK	05/02/2025	04:14	PP071729.D	10.22	4.51
AR1660CCC500	AR1660CCC500	05/02/2025	08:14	PP071731.D	10.23	4.51
I.BLK	I.BLK	05/02/2025	09:22	PP071735.D	10.23	4.51
PB167834BL	PB167834BL	05/02/2025	13:19	PP071737.D	10.22	4.51
PB167834BS	PB167834BS	05/02/2025	13:36	PP071738.D	10.23	4.51

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Analytical Sequence

MH-QMS	Q1928-01MS	05/02/2025	14:09	PP071740.D	10.23	4.51
MH-QMSD	Q1928-01MSD	05/02/2025	14:25	PP071741.D	10.23	4.51
AR1660CCC500	AR1660CCC500	05/02/2025	16:37	PP071746.D	10.23	4.52
I.BLK	I.BLK	05/02/2025	18:15	PP071750.D	10.23	4.52
WC-12-S-202504	Q1913-01	05/02/2025	20:09	PP071757.D	10.23	4.51
WC-13-S-202504	Q1913-03	05/02/2025	20:26	PP071758.D	10.23	4.50
AR1660CCC500	AR1660CCC500	05/02/2025	22:20	PP071760.D	10.22	4.51
I.BLK	I.BLK	05/02/2025	23:58	PP071764.D	10.22	4.51

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Fax : 908 789 8922

Analytical Sequence

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/22/2025 04/22/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	04/22/2025	10:13	PP071388.D	8.85	3.81
AR1660ICC1000	AR1660ICC1000	04/22/2025	10:29	PP071389.D	8.85	3.81
AR1660ICC750	AR1660ICC750	04/22/2025	10:45	PP071390.D	8.85	3.81
AR1660ICC500	AR1660ICC500	04/22/2025	11:02	PP071391.D	8.85	3.81
AR1660ICC250	AR1660ICC250	04/22/2025	11:18	PP071392.D	8.85	3.81
AR1660ICC050	AR1660ICC050	04/22/2025	11:34	PP071393.D	8.85	3.81
AR1221ICC500	AR1221ICC500	04/22/2025	11:51	PP071394.D	8.85	3.81
AR1232ICC500	AR1232ICC500	04/22/2025	12:07	PP071395.D	8.85	3.81
AR1242ICC1000	AR1242ICC1000	04/22/2025	12:23	PP071396.D	8.85	3.81
AR1242ICC750	AR1242ICC750	04/22/2025	12:39	PP071397.D	8.85	3.81
AR1242ICC500	AR1242ICC500	04/22/2025	12:56	PP071398.D	8.85	3.81
AR1242ICC250	AR1242ICC250	04/22/2025	13:12	PP071399.D	8.85	3.81
AR1242ICC050	AR1242ICC050	04/22/2025	13:28	PP071400.D	8.85	3.81
AR1248ICC1000	AR1248ICC1000	04/22/2025	13:45	PP071401.D	8.85	3.81
AR1248ICC750	AR1248ICC750	04/22/2025	14:01	PP071402.D	8.85	3.81
AR1248ICC500	AR1248ICC500	04/22/2025	14:17	PP071403.D	8.85	3.81
AR1248ICC250	AR1248ICC250	04/22/2025	14:33	PP071404.D	8.85	3.81
AR1248ICC050	AR1248ICC050	04/22/2025	14:50	PP071405.D	8.85	3.81
AR1254ICC1000	AR1254ICC1000	04/22/2025	15:06	PP071406.D	8.85	3.81
AR1254ICC750	AR1254ICC750	04/22/2025	15:22	PP071407.D	8.85	3.81
AR1254ICC500	AR1254ICC500	04/22/2025	15:38	PP071408.D	8.85	3.81
AR1254ICC250	AR1254ICC250	04/22/2025	15:55	PP071409.D	8.85	3.81
AR1254ICC050	AR1254ICC050	04/22/2025	16:11	PP071410.D	8.85	3.81
AR1262ICC500	AR1262ICC500	04/22/2025	16:27	PP071411.D	8.85	3.81
AR1268ICC1000	AR1268ICC1000	04/22/2025	16:44	PP071412.D	8.85	3.81
AR1268ICC750	AR1268ICC750	04/22/2025	17:00	PP071413.D	8.85	3.81
AR1268ICC500	AR1268ICC500	04/22/2025	17:16	PP071414.D	8.85	3.81
AR1268ICC250	AR1268ICC250	04/22/2025	17:33	PP071415.D	8.85	3.81
AR1268ICC050	AR1268ICC050	04/22/2025	17:49	PP071416.D	8.85	3.81
AR1660CCC500	AR1660CCC500	05/01/2025	21:27	PP071711.D	8.84	3.81
I.BLK	I.BLK	05/01/2025	22:48	PP071715.D	8.84	3.81
PB167818BL	PB167818BL	05/01/2025	23:04	PP071716.D	8.84	3.81
PB167818BS	PB167818BS	05/01/2025	23:21	PP071717.D	8.84	3.81
PB167818BSD	PB167818BSD	05/01/2025	23:37	PP071718.D	8.84	3.81
WC-12-A-202504	Q1913-02	05/01/2025	23:53	PP071719.D	8.84	3.81
WC-13-A-202504	Q1913-04	05/02/2025	00:09	PP071720.D	8.84	3.81
AR1660CCC500	AR1660CCC500	05/02/2025	02:52	PP071725.D	8.84	3.81
I.BLK	I.BLK	05/02/2025	04:14	PP071729.D	8.84	3.81
AR1660CCC500	AR1660CCC500	05/02/2025	08:14	PP071731.D	8.84	3.81
I.BLK	I.BLK	05/02/2025	09:22	PP071735.D	8.84	3.81
PB167834BL	PB167834BL	05/02/2025	13:19	PP071737.D	8.84	3.81
PB167834BS	PB167834BS	05/02/2025	13:36	PP071738.D	8.84	3.81

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Analytical Sequence

MH-QMS	Q1928-01MS	05/02/2025	14:09	PP071740.D	8.84	3.81
MH-QMSD	Q1928-01MSD	05/02/2025	14:25	PP071741.D	8.84	3.81
AR1660CCC500	AR1660CCC500	05/02/2025	16:37	PP071746.D	8.84	3.81
I.BLK	I.BLK	05/02/2025	18:15	PP071750.D	8.84	3.81
WC-12-S-202504	Q1913-01	05/02/2025	20:09	PP071757.D	8.84	3.81
WC-13-S-202504	Q1913-03	05/02/2025	20:26	PP071758.D	8.84	3.81
AR1660CCC500	AR1660CCC500	05/02/2025	22:20	PP071760.D	8.84	3.81
I.BLK	I.BLK	05/02/2025	23:58	PP071764.D	8.84	3.81

QC SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167818BL	SDG No.:	Q1913
Lab Sample ID:	PB167818BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071716.D	1	05/01/25 08:45	05/01/25 23:04	PB167818

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.3		16 - 158	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		10 - 173	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167834BL	SDG No.:	Q1913
Lab Sample ID:	PB167834BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071737.D	1	05/02/25 09:45	05/02/25 13:19	PB167834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.8		32 - 144	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.8		32 - 175	119%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	04/22/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/22/25
Client Sample ID:	PIBLK-PP071388.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PP071388.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071388.D	1		04/22/25	PP042225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.1		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		60 - 140	88%	SPK: 20

Comments:

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Report of Analysis

Client:	AECOM	Date Collected:	05/01/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	PIBLK-PP071715.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PP071715.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071715.D	1		05/01/25	PP050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.9		60 - 140	80%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		60 - 140	88%	SPK: 20

Comments:

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/02/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/02/25
Client Sample ID:	PIBLK-PP071729.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PP071729.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071729.D	1		05/02/25	PP050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.5		60 - 140	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		60 - 140	90%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/02/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/02/25
Client Sample ID:	PIBLK-PP071735.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PP071735.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071735.D	1		05/02/25	PP050225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.7		60 - 140	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.2		60 - 140	91%	SPK: 20

Comments:

U = Not Detected
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	05/02/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/02/25
Client Sample ID:	PIBLK-PP071750.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PP071750.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071750.D	1		05/02/25	PP050225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.9		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		60 - 140	93%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM	Date Collected:	05/02/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/02/25
Client Sample ID:	PIBLK-PP071764.D	SDG No.:	Q1913
Lab Sample ID:	I.BLK-PP071764.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071764.D	1		05/02/25	PP050225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.5		60 - 140	82%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		60 - 140	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167818BS	SDG No.:	Q1913
Lab Sample ID:	PB167818BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071717.D	1	05/01/25 08:45	05/01/25 23:21	PB167818

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.80		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.70		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		16 - 158	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.8		10 - 173	109%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167834BS	SDG No.:	Q1913
Lab Sample ID:	PB167834BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071738.D	1	05/02/25 09:45	05/02/25 13:36	PB167834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	157		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	165		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		32 - 144	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.9		32 - 175	119%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB167818BSD	SDG No.:	Q1913
Lab Sample ID:	PB167818BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071718.D	1	05/01/25 08:45	05/01/25 23:37	PB167818

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.50		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.80		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		16 - 158	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		10 - 173	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	AECOM	Date Collected:	05/01/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	MH-QMS	SDG No.:	Q1913
Lab Sample ID:	Q1928-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.1 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071740.D	1	05/02/25 09:45	05/02/25 14:09	PB167834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	198		4.50	19.5	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.5	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.5	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.5	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.5	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.5	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.5	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.5	ug/kg
11096-82-5	Aroclor-1260	195		3.70	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		32 - 144	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.0		32 - 175	110%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	AECOM	Date Collected:	05/01/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	05/01/25
Client Sample ID:	MH-QMSD	SDG No.:	Q1913
Lab Sample ID:	Q1928-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071741.D	1	05/02/25 09:45	05/02/25 14:25	PB167834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	186		4.50	19.5	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.5	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.5	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.5	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.5	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.5	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.5	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.5	ug/kg
11096-82-5	Aroclor-1260	182		3.70	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		32 - 144	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		32 - 175	105%	SPK: 20

Comments:

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LAB CHRONICLE

OrderID:	Q1913	**OrderDate:**	4/29/2025 2:15:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1913-01	**WC-12-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP ICP Metals	6010D		05/05/25	05/05/25	
			TCLP Mercury	7470A		05/05/25	05/05/25	
Q1913-02	**WC-12-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP ICP Metals	6010D		04/30/25	05/02/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	
Q1913-03	**WC-13-S-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP ICP Metals	6010D		05/05/25	05/06/25	
			TCLP Mercury	7470A		05/05/25	05/05/25	
Q1913-04	**WC-13-A-202504**	**TCLP**			**04/29/25**			**04/29/25**
			TCLP ICP Metals	6010D		04/30/25	05/01/25	
			TCLP Mercury	7470A		04/30/25	05/01/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1913 **Order ID:** Q1913

Client: AECOM **Project ID:** Meeker Ave Plumes Superfund Site RI FS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WC-12-S-202504								
Q1913-01	WC-12-S-202504	TCLP	Barium	1440		72.8	500	ug/L
Q1913-01	WC-12-S-202504	TCLP	Chromium	24.8	J	10.6	50.0	ug/L
Q1913-01	WC-12-S-202504	TCLP	Lead	65.0		11.5	60.0	ug/L
Client ID : WC-12-A-202504								
Q1913-02	WC-12-A-202504	TCLP	Chromium	122		10.6	50.0	ug/L
Client ID : WC-13-S-202504								
Q1913-03	WC-13-S-202504	TCLP	Barium	1170		72.8	500	ug/L
Client ID : WC-13-A-202504								
Q1913-04	WC-13-A-202504	TCLP	Barium	636		72.8	500	ug/L
Q1913-04	WC-13-A-202504	TCLP	Chromium	12.0	J	10.6	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-01	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050
7440-39-3	Barium	1440	*	1	72.8	500	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050
7440-47-3	Chromium	24.8	J	1	10.6	50.0	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050
7439-92-1	Lead	65.0		1	11.5	60.0	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050
7439-97-6	Mercury	0.76	U*	1	0.76	2.00	ug/L	05/05/25 07:20	05/05/25 13:45	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	05/05/25 12:05	05/05/25 16:38	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

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

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

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050
7440-39-3	Barium	72.8	U	1	72.8	500	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050
7440-47-3	Chromium	122		1	10.6	50.0	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050
7439-92-1	Lead	11.5	U	1	11.5	60.0	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/30/25 12:32	05/01/25 13:44	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	04/30/25 13:35	05/02/25 16:09	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-03	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050
7440-39-3	Barium	1170	*	1	72.8	500	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050
7439-92-1	Lead	11.5	U	1	11.5	60.0	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050
7439-97-6	Mercury	0.76	U*	1	0.76	2.00	ug/L	05/05/25 07:20	05/05/25 13:48	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	05/05/25 12:05	05/06/25 17:43	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

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

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

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050
7440-39-3	Barium	636		1	72.8	500	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050
7440-47-3	Chromium	12.0	J	1	10.6	50.0	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050
7439-92-1	Lead	11.5	U	1	11.5	60.0	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/30/25 12:32	05/01/25 13:53	SW7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	04/30/25 13:35	05/01/25 20:02	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

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

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

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV112	Mercury	3.81	4.0	95	90 - 110	CV	05/01/2025	11:47	LB135623

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV62	Mercury	4.80	5.0	96	90 - 110	CV	05/01/2025	11:58	LB135623
CCV63	Mercury	5.01	5.0	100	90 - 110	CV	05/01/2025	12:49	LB135623
CCV64	Mercury	5.09	5.0	102	90 - 110	CV	05/01/2025	13:19	LB135623
CCV65	Mercury	4.77	5.0	95	90 - 110	CV	05/01/2025	13:58	LB135623
CCV66	Mercury	4.60	5.0	92	90 - 110	CV	05/01/2025	14:29	LB135623
CCV67	Mercury	4.61	5.0	92	90 - 110	CV	05/01/2025	15:23	LB135623

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV114	Mercury	3.72	4.0	93	90 - 110	CV	05/05/2025	11:16	LB135662

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV71	Mercury	4.85	5.0	97	90 - 110	CV	05/05/2025	11:25	LB135662
CCV72	Mercury	5.11	5.0	102	90 - 110	CV	05/05/2025	11:58	LB135662
CCV73	Mercury	4.75	5.0	95	90 - 110	CV	05/05/2025	12:28	LB135662
CCV74	Mercury	4.54	5.0	91	90 - 110	CV	05/05/2025	13:03	LB135662
CCV75	Mercury	5.43	5.0	108	90 - 110	CV	05/05/2025	13:41	LB135662
CCV76	Mercury	5.40	5.0	108	90 - 110	CV	05/05/2025	13:52	LB135662

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1010	1000	100	90 - 110	P	05/01/2025	13:44	LB135636
	Barium	495	520	95	90 - 110	P	05/01/2025	13:44	LB135636
	Cadmium	508	510	100	90 - 110	P	05/01/2025	13:44	LB135636
	Chromium	506	520	97	90 - 110	P	05/01/2025	13:44	LB135636
	Lead	989	1000	99	90 - 110	P	05/01/2025	13:44	LB135636
	Selenium	1040	1000	104	90 - 110	P	05/01/2025	13:44	LB135636
	Silver	240	250	96	90 - 110	P	05/01/2025	13:44	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	23.7	20.0	119	80 - 120	P	05/01/2025	14:01	LB135636
	Barium	95.8	100	96	80 - 120	P	05/01/2025	14:01	LB135636
	Cadmium	6.39	6.0	107	80 - 120	P	05/01/2025	14:01	LB135636
	Chromium	10.5	10.0	105	80 - 120	P	05/01/2025	14:01	LB135636
	Lead	13.1	12.0	109	80 - 120	P	05/01/2025	14:01	LB135636
	Selenium	22.9	20.0	114	80 - 120	P	05/01/2025	14:01	LB135636
	Silver	10.2	10.0	102	80 - 120	P	05/01/2025	14:01	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	15:05	LB135636
	Barium	9650	10000	96	90 - 110	P	05/01/2025	15:05	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	15:05	LB135636
	Chromium	1000	1000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Lead	5010	5000	100	90 - 110	P	05/01/2025	15:05	LB135636
	Selenium	5140	5000	103	90 - 110	P	05/01/2025	15:05	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	15:05	LB135636
CCV02	Arsenic	4930	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Barium	10200	10000	102	90 - 110	P	05/01/2025	16:00	LB135636
	Cadmium	2470	2500	99	90 - 110	P	05/01/2025	16:00	LB135636
	Chromium	995	1000	100	90 - 110	P	05/01/2025	16:00	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	16:00	LB135636
	Selenium	4960	5000	99	90 - 110	P	05/01/2025	16:00	LB135636
	Silver	1220	1250	98	90 - 110	P	05/01/2025	16:00	LB135636
CCV03	Arsenic	5040	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Barium	9950	10000	100	90 - 110	P	05/01/2025	17:03	LB135636
	Cadmium	2510	2500	100	90 - 110	P	05/01/2025	17:03	LB135636
	Chromium	988	1000	99	90 - 110	P	05/01/2025	17:03	LB135636
	Lead	5010	5000	100	90 - 110	P	05/01/2025	17:03	LB135636
	Selenium	5060	5000	101	90 - 110	P	05/01/2025	17:03	LB135636
	Silver	1220	1250	97	90 - 110	P	05/01/2025	17:03	LB135636
CCV04	Arsenic	5160	5000	103	90 - 110	P	05/01/2025	17:49	LB135636
	Barium	10000	10000	100	90 - 110	P	05/01/2025	17:49	LB135636
	Cadmium	2470	2500	99	90 - 110	P	05/01/2025	17:49	LB135636
	Chromium	987	1000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Lead	4950	5000	99	90 - 110	P	05/01/2025	17:49	LB135636
	Selenium	5240	5000	105	90 - 110	P	05/01/2025	17:49	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	17:49	LB135636
CCV05	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	18:36	LB135636
	Barium	9950	10000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	18:36	LB135636
	Chromium	984	1000	98	90 - 110	P	05/01/2025	18:36	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	18:36	LB135636
	Selenium	5150	5000	103	90 - 110	P	05/01/2025	18:36	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1230	1250	98	90 - 110	P	05/01/2025	18:36	LB135636
CCV06	Arsenic	4990	5000	100	90 - 110	P	05/01/2025	19:23	LB135636
	Barium	9830	10000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Cadmium	2460	2500	98	90 - 110	P	05/01/2025	19:23	LB135636
	Chromium	980	1000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Lead	4920	5000	98	90 - 110	P	05/01/2025	19:23	LB135636
	Selenium	5030	5000	101	90 - 110	P	05/01/2025	19:23	LB135636
	Silver	1240	1250	99	90 - 110	P	05/01/2025	19:23	LB135636
CCV07	Arsenic	5090	5000	102	90 - 110	P	05/01/2025	20:11	LB135636
	Barium	9790	10000	98	90 - 110	P	05/01/2025	20:11	LB135636
	Cadmium	2500	2500	100	90 - 110	P	05/01/2025	20:11	LB135636
	Chromium	995	1000	100	90 - 110	P	05/01/2025	20:11	LB135636
	Lead	4980	5000	100	90 - 110	P	05/01/2025	20:11	LB135636
	Selenium	5120	5000	102	90 - 110	P	05/01/2025	20:11	LB135636
	Silver	1250	1250	100	90 - 110	P	05/01/2025	20:11	LB135636
CCV08	Arsenic	5180	5000	104	90 - 110	P	05/01/2025	20:24	LB135636
	Barium	9880	10000	99	90 - 110	P	05/01/2025	20:24	LB135636
	Cadmium	2490	2500	100	90 - 110	P	05/01/2025	20:24	LB135636
	Chromium	980	1000	98	90 - 110	P	05/01/2025	20:24	LB135636
	Lead	4990	5000	100	90 - 110	P	05/01/2025	20:24	LB135636
	Selenium	5270	5000	105	90 - 110	P	05/01/2025	20:24	LB135636
	Silver	1240	1250	99	90 - 110	P	05/01/2025	20:24	LB135636

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1060	1000	106	90 - 110	P	05/02/2025	13:47	LB135654
	Barium	518	520	100	90 - 110	P	05/02/2025	13:47	LB135654
	Cadmium	493	510	97	90 - 110	P	05/02/2025	13:47	LB135654
	Chromium	503	520	97	90 - 110	P	05/02/2025	13:47	LB135654
	Lead	966	1000	97	90 - 110	P	05/02/2025	13:47	LB135654
	Selenium	1040	1000	104	90 - 110	P	05/02/2025	13:47	LB135654
	Silver	230	250	92	90 - 110	P	05/02/2025	13:47	LB135654

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	19.0	20.0	95	80 - 120	P	05/02/2025	15:03	LB135654
	Barium	81.5	100	82	80 - 120	P	05/02/2025	15:03	LB135654
	Cadmium	5.51	6.0	92	80 - 120	P	05/02/2025	15:03	LB135654
	Chromium	10.1	10.0	101	80 - 120	P	05/02/2025	15:03	LB135654
	Lead	11.1	12.0	93	80 - 120	P	05/02/2025	15:03	LB135654
	Selenium	16.8	20.0	84	80 - 120	P	05/02/2025	15:03	LB135654
	Silver	10.8	10.0	108	80 - 120	P	05/02/2025	15:03	LB135654

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5450	5000	109	90 - 110	P	05/02/2025	16:01	LB135654
	Barium	9540	10000	95	90 - 110	P	05/02/2025	16:01	LB135654
	Cadmium	2440	2500	98	90 - 110	P	05/02/2025	16:01	LB135654
	Chromium	1010	1000	101	90 - 110	P	05/02/2025	16:01	LB135654
	Lead	4820	5000	96	90 - 110	P	05/02/2025	16:01	LB135654
	Selenium	5460	5000	109	90 - 110	P	05/02/2025	16:01	LB135654
	Silver	1270	1250	102	90 - 110	P	05/02/2025	16:01	LB135654
CCV02	Arsenic	5240	5000	105	90 - 110	P	05/02/2025	16:34	LB135654
	Barium	9720	10000	97	90 - 110	P	05/02/2025	16:34	LB135654
	Cadmium	2390	2500	96	90 - 110	P	05/02/2025	16:34	LB135654
	Chromium	1000	1000	100	90 - 110	P	05/02/2025	16:34	LB135654
	Lead	4740	5000	95	90 - 110	P	05/02/2025	16:34	LB135654
	Selenium	5240	5000	105	90 - 110	P	05/02/2025	16:34	LB135654
	Silver	1260	1250	101	90 - 110	P	05/02/2025	16:34	LB135654

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	973	1000	97	90 - 110	P	05/05/2025	14:18	LB135674
	Barium	522	520	100	90 - 110	P	05/05/2025	14:18	LB135674
	Cadmium	501	510	98	90 - 110	P	05/05/2025	14:18	LB135674
	Chromium	508	520	98	90 - 110	P	05/05/2025	14:18	LB135674
	Lead	988	1000	99	90 - 110	P	05/05/2025	14:18	LB135674
	Selenium	1020	1000	102	90 - 110	P	05/05/2025	14:18	LB135674
	Silver	228	250	91	90 - 110	P	05/05/2025	14:18	LB135674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	23.4	20.0	117	80 - 120	P	05/05/2025	14:36	LB135674
	Barium	95.2	100	95	80 - 120	P	05/05/2025	14:36	LB135674
	Cadmium	5.83	6.0	97	80 - 120	P	05/05/2025	14:36	LB135674
	Chromium	10.2	10.0	102	80 - 120	P	05/05/2025	14:36	LB135674
	Lead	10.9	12.0	91	80 - 120	P	05/05/2025	14:36	LB135674
	Selenium	22.6	20.0	113	80 - 120	P	05/05/2025	14:36	LB135674
	Silver	10.2	10.0	102	80 - 120	P	05/05/2025	14:36	LB135674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4930	5000	99	90 - 110	P	05/05/2025	15:20	LB135674
	Barium	9850	10000	98	90 - 110	P	05/05/2025	15:20	LB135674
	Cadmium	2450	2500	98	90 - 110	P	05/05/2025	15:20	LB135674
	Chromium	996	1000	100	90 - 110	P	05/05/2025	15:20	LB135674
	Lead	4940	5000	99	90 - 110	P	05/05/2025	15:20	LB135674
	Selenium	4960	5000	99	90 - 110	P	05/05/2025	15:20	LB135674
	Silver	1240	1250	99	90 - 110	P	05/05/2025	15:20	LB135674
CCV02	Arsenic	4880	5000	98	90 - 110	P	05/05/2025	16:07	LB135674
	Barium	9880	10000	99	90 - 110	P	05/05/2025	16:07	LB135674
	Cadmium	2410	2500	96	90 - 110	P	05/05/2025	16:07	LB135674
	Chromium	974	1000	97	90 - 110	P	05/05/2025	16:07	LB135674
	Lead	4870	5000	97	90 - 110	P	05/05/2025	16:07	LB135674
	Selenium	4920	5000	98	90 - 110	P	05/05/2025	16:07	LB135674
	Silver	1210	1250	97	90 - 110	P	05/05/2025	16:07	LB135674
CCV03	Arsenic	5050	5000	101	90 - 110	P	05/05/2025	16:56	LB135674
	Barium	9910	10000	99	90 - 110	P	05/05/2025	16:56	LB135674
	Cadmium	2410	2500	96	90 - 110	P	05/05/2025	16:56	LB135674
	Chromium	975	1000	98	90 - 110	P	05/05/2025	16:56	LB135674
	Lead	4880	5000	98	90 - 110	P	05/05/2025	16:56	LB135674
	Selenium	5160	5000	103	90 - 110	P	05/05/2025	16:56	LB135674
	Silver	1230	1250	98	90 - 110	P	05/05/2025	16:56	LB135674
CCV04	Arsenic	4930	5000	99	90 - 110	P	05/05/2025	17:55	LB135674
	Barium	9690	10000	97	90 - 110	P	05/05/2025	17:55	LB135674
	Cadmium	2420	2500	97	90 - 110	P	05/05/2025	17:55	LB135674
	Chromium	977	1000	98	90 - 110	P	05/05/2025	17:55	LB135674
	Lead	4870	5000	98	90 - 110	P	05/05/2025	17:55	LB135674
	Selenium	4980	5000	100	90 - 110	P	05/05/2025	17:55	LB135674
	Silver	1200	1250	96	90 - 110	P	05/05/2025	17:55	LB135674
CCV05	Arsenic	4990	5000	100	90 - 110	P	05/05/2025	18:43	LB135674
	Barium	9570	10000	96	90 - 110	P	05/05/2025	18:43	LB135674
	Cadmium	2420	2500	97	90 - 110	P	05/05/2025	18:43	LB135674
	Chromium	970	1000	97	90 - 110	P	05/05/2025	18:43	LB135674
	Lead	4860	5000	97	90 - 110	P	05/05/2025	18:43	LB135674
	Selenium	5070	5000	101	90 - 110	P	05/05/2025	18:43	LB135674

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1220	1250	98	90 - 110	P	05/05/2025	18:43	LB135674
CCV06	Arsenic	4750	5000	95	90 - 110	P	05/05/2025	19:32	LB135674
	Barium	9680	10000	97	90 - 110	P	05/05/2025	19:32	LB135674
	Cadmium	2340	2500	94	90 - 110	P	05/05/2025	19:32	LB135674
	Chromium	940	1000	94	90 - 110	P	05/05/2025	19:32	LB135674
	Lead	4680	5000	94	90 - 110	P	05/05/2025	19:32	LB135674
	Selenium	4800	5000	96	90 - 110	P	05/05/2025	19:32	LB135674
	Silver	1190	1250	95	90 - 110	P	05/05/2025	19:32	LB135674
CCV07	Arsenic	4700	5000	94	90 - 110	P	05/05/2025	20:19	LB135674
	Barium	9380	10000	94	90 - 110	P	05/05/2025	20:19	LB135674
	Cadmium	2350	2500	94	90 - 110	P	05/05/2025	20:19	LB135674
	Chromium	955	1000	96	90 - 110	P	05/05/2025	20:19	LB135674
	Lead	4710	5000	94	90 - 110	P	05/05/2025	20:19	LB135674
	Selenium	4700	5000	94	90 - 110	P	05/05/2025	20:19	LB135674
	Silver	1180	1250	95	90 - 110	P	05/05/2025	20:19	LB135674
CCV08	Arsenic	4790	5000	96	90 - 110	P	05/05/2025	21:07	LB135674
	Barium	9390	10000	94	90 - 110	P	05/05/2025	21:07	LB135674
	Cadmium	2380	2500	95	90 - 110	P	05/05/2025	21:07	LB135674
	Chromium	961	1000	96	90 - 110	P	05/05/2025	21:07	LB135674
	Lead	4770	5000	95	90 - 110	P	05/05/2025	21:07	LB135674
	Selenium	4800	5000	96	90 - 110	P	05/05/2025	21:07	LB135674
	Silver	1180	1250	94	90 - 110	P	05/05/2025	21:07	LB135674
CCV09	Arsenic	4740	5000	95	90 - 110	P	05/05/2025	21:59	LB135674
	Barium	9390	10000	94	90 - 110	P	05/05/2025	21:59	LB135674
	Cadmium	2410	2500	97	90 - 110	P	05/05/2025	21:59	LB135674
	Chromium	959	1000	96	90 - 110	P	05/05/2025	21:59	LB135674
	Lead	4810	5000	96	90 - 110	P	05/05/2025	21:59	LB135674
	Selenium	4740	5000	95	90 - 110	P	05/05/2025	21:59	LB135674
	Silver	1190	1250	95	90 - 110	P	05/05/2025	21:59	LB135674
CCV10	Arsenic	4740	5000	95	90 - 110	P	05/05/2025	22:33	LB135674
	Barium	9090	10000	91	90 - 110	P	05/05/2025	22:33	LB135674
	Cadmium	2380	2500	95	90 - 110	P	05/05/2025	22:33	LB135674
	Chromium	967	1000	97	90 - 110	P	05/05/2025	22:33	LB135674
	Lead	4750	5000	95	90 - 110	P	05/05/2025	22:33	LB135674

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Selenium	4730	5000	95	90 - 110	P	05/05/2025	22:33	LB135674
	Silver	1180	1250	94	90 - 110	P	05/05/2025	22:33	LB135674

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	976	1000	98	90 - 110	P	05/06/2025	14:47	LB135689
	Barium	531	520	102	90 - 110	P	05/06/2025	14:47	LB135689
	Cadmium	498	510	98	90 - 110	P	05/06/2025	14:47	LB135689
	Chromium	498	520	96	90 - 110	P	05/06/2025	14:47	LB135689
	Lead	975	1000	98	90 - 110	P	05/06/2025	14:47	LB135689
	Selenium	1000	1000	100	90 - 110	P	05/06/2025	14:47	LB135689
	Silver	232	250	93	90 - 110	P	05/06/2025	14:47	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.2	20.0	91	80 - 120	P	05/06/2025	15:22	LB135689
	Barium	91.5	100	92	80 - 120	P	05/06/2025	15:22	LB135689
	Cadmium	5.98	6.0	100	80 - 120	P	05/06/2025	15:22	LB135689
	Chromium	9.31	10.0	93	80 - 120	P	05/06/2025	15:22	LB135689
	Lead	11.1	12.0	92	80 - 120	P	05/06/2025	15:22	LB135689
	Selenium	19.1	20.0	95	80 - 120	P	05/06/2025	15:22	LB135689
	Silver	9.80	10.0	98	80 - 120	P	05/06/2025	15:22	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4780	5000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Barium	9340	10000	93	90 - 110	P	05/06/2025	16:29	LB135689
	Cadmium	2390	2500	95	90 - 110	P	05/06/2025	16:29	LB135689
	Chromium	998	1000	100	90 - 110	P	05/06/2025	16:29	LB135689
	Lead	5030	5000	101	90 - 110	P	05/06/2025	16:29	LB135689
	Selenium	4800	5000	96	90 - 110	P	05/06/2025	16:29	LB135689
	Silver	1240	1250	99	90 - 110	P	05/06/2025	16:29	LB135689
CCV02	Arsenic	4730	5000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Barium	9710	10000	97	90 - 110	P	05/06/2025	17:15	LB135689
	Cadmium	2390	2500	96	90 - 110	P	05/06/2025	17:15	LB135689
	Chromium	962	1000	96	90 - 110	P	05/06/2025	17:15	LB135689
	Lead	4890	5000	98	90 - 110	P	05/06/2025	17:15	LB135689
	Selenium	4750	5000	95	90 - 110	P	05/06/2025	17:15	LB135689
	Silver	1200	1250	96	90 - 110	P	05/06/2025	17:15	LB135689
CCV03	Arsenic	4570	5000	92	90 - 110	P	05/06/2025	18:08	LB135689
	Barium	9450	10000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Cadmium	2340	2500	94	90 - 110	P	05/06/2025	18:08	LB135689
	Chromium	954	1000	95	90 - 110	P	05/06/2025	18:08	LB135689
	Lead	4690	5000	94	90 - 110	P	05/06/2025	18:08	LB135689
	Selenium	4550	5000	91	90 - 110	P	05/06/2025	18:08	LB135689
	Silver	1180	1250	94	90 - 110	P	05/06/2025	18:08	LB135689
CCV04	Arsenic	4840	5000	97	90 - 110	P	05/06/2025	19:16	LB135689
	Barium	9930	10000	99	90 - 110	P	05/06/2025	19:16	LB135689
	Cadmium	2470	2500	99	90 - 110	P	05/06/2025	19:16	LB135689
	Chromium	988	1000	99	90 - 110	P	05/06/2025	19:16	LB135689
	Lead	4970	5000	99	90 - 110	P	05/06/2025	19:16	LB135689
	Selenium	4820	5000	96	90 - 110	P	05/06/2025	19:16	LB135689
	Silver	1240	1250	99	90 - 110	P	05/06/2025	19:16	LB135689
CCV05	Arsenic	4780	5000	96	90 - 110	P	05/06/2025	20:01	LB135689
	Barium	9940	10000	99	90 - 110	P	05/06/2025	20:01	LB135689
	Cadmium	2460	2500	99	90 - 110	P	05/06/2025	20:01	LB135689
	Chromium	995	1000	100	90 - 110	P	05/06/2025	20:01	LB135689
	Lead	4900	5000	98	90 - 110	P	05/06/2025	20:01	LB135689
	Selenium	4730	5000	95	90 - 110	P	05/06/2025	20:01	LB135689

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1230	1250	99	90 - 110	P	05/06/2025	20:01	LB135689
CCV06	Arsenic	4840	5000	97	90 - 110	P	05/06/2025	20:31	LB135689
	Barium	9850	10000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Cadmium	2440	2500	98	90 - 110	P	05/06/2025	20:31	LB135689
	Chromium	975	1000	98	90 - 110	P	05/06/2025	20:31	LB135689
	Lead	4870	5000	97	90 - 110	P	05/06/2025	20:31	LB135689
	Selenium	4820	5000	96	90 - 110	P	05/06/2025	20:31	LB135689
	Silver	1210	1250	97	90 - 110	P	05/06/2025	20:31	LB135689

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Metals

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CRDL STANDARD FOR AA & ICP

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.17	0.2	86	40 - 160	CV	05/01/2025	12:05	LB135623
CRI01	Arsenic	23.3	20.0	116	40 - 160	P	05/01/2025	14:16	LB135636
	Barium	93.6	100	94	40 - 160	P	05/01/2025	14:16	LB135636
	Cadmium	6.36	6.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Chromium	10.6	10.0	106	40 - 160	P	05/01/2025	14:16	LB135636
	Lead	13.3	12.0	111	40 - 160	P	05/01/2025	14:16	LB135636
	Selenium	23.1	20.0	115	40 - 160	P	05/01/2025	14:16	LB135636
	Silver	10.6	10.0	106	40 - 160	P	05/01/2025	14:16	LB135636
CRI01	Arsenic	21.5	20.0	108	40 - 160	P	05/02/2025	15:12	LB135654
	Barium	80.2	100	80	40 - 160	P	05/02/2025	15:12	LB135654
	Cadmium	5.66	6.0	94	40 - 160	P	05/02/2025	15:12	LB135654
	Chromium	10.6	10.0	106	40 - 160	P	05/02/2025	15:12	LB135654
	Lead	12.1	12.0	101	40 - 160	P	05/02/2025	15:12	LB135654
	Selenium	23.5	20.0	117	40 - 160	P	05/02/2025	15:12	LB135654
	Silver	10.7	10.0	107	40 - 160	P	05/02/2025	15:12	LB135654
CRA	Mercury	0.19	0.2	97	40 - 160	CV	05/05/2025	11:33	LB135662
CRI01	Arsenic	20.6	20.0	103	40 - 160	P	05/05/2025	14:47	LB135674
	Barium	92.2	100	92	40 - 160	P	05/05/2025	14:47	LB135674
	Cadmium	5.79	6.0	96	40 - 160	P	05/05/2025	14:47	LB135674
	Chromium	10.3	10.0	103	40 - 160	P	05/05/2025	14:47	LB135674
	Lead	11.2	12.0	93	40 - 160	P	05/05/2025	14:47	LB135674
	Selenium	22.8	20.0	114	40 - 160	P	05/05/2025	14:47	LB135674
	Silver	10.3	10.0	103	40 - 160	P	05/05/2025	14:47	LB135674
CRI01	Arsenic	20.3	20.0	101	40 - 160	P	05/06/2025	15:31	LB135689
	Barium	89.4	100	89	40 - 160	P	05/06/2025	15:31	LB135689
	Cadmium	5.91	6.0	98	40 - 160	P	05/06/2025	15:31	LB135689
	Chromium	9.54	10.0	95	40 - 160	P	05/06/2025	15:31	LB135689
	Lead	10.0	12.0	83	40 - 160	P	05/06/2025	15:31	LB135689
	Selenium	22.5	20.0	112	40 - 160	P	05/06/2025	15:31	LB135689
	Silver	9.66	10.0	97	40 - 160	P	05/06/2025	15:31	LB135689

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB112	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	11:49	LB135623

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	12:01	LB135623
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	12:51	LB135623
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	13:23	LB135623
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	14:02	LB135623
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	14:40	LB135623
CCB67	Mercury	0.20	+/-0.20	U	0.20	CV	05/01/2025	15:25	LB135623

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB114	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	11:18	LB135662

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB71	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	11:30	LB135662
CCB72	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	12:03	LB135662
CCB73	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	12:38	LB135662
CCB74	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	13:06	LB135662
CCB75	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	13:43	LB135662
CCB76	Mercury	0.20	+/-0.20	U	0.20	CV	05/05/2025	13:55	LB135662

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	14:11	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	14:11	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	14:11	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	14:11	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	14:11	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	14:11	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	15:12	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	15:12	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	15:12	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	15:12	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	15:12	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	15:12	LB135636
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	16:04	LB135636
	Cadmium	0.60	+/-6.00	J	6.00	P	05/01/2025	16:04	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	16:04	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	16:04	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	16:04	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	16:04	LB135636
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	17:07	LB135636
	Cadmium	0.88	+/-6.00	J	6.00	P	05/01/2025	17:07	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	17:07	LB135636
	Lead	3.14	+/-12.0	J	12.0	P	05/01/2025	17:07	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	17:07	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	17:07	LB135636
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	17:53	LB135636
	Cadmium	0.92	+/-6.00	J	6.00	P	05/01/2025	17:53	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	17:53	LB135636
	Lead	2.63	+/-12.0	J	12.0	P	05/01/2025	17:53	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	17:53	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	17:53	LB135636
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	18:40	LB135636
	Cadmium	0.89	+/-6.00	J	6.00	P	05/01/2025	18:40	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	18:40	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	18:40	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	18:40	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	18:40	LB135636
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	19:27	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	19:27	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	19:27	LB135636

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	19:27	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	19:27	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	19:27	LB135636
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	20:15	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:15	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	20:15	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	20:15	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	20:15	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	20:15	LB135636
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Barium	100	+/-100	U	100	P	05/01/2025	20:28	LB135636
	Cadmium	6.00	+/-6.00	U	6.00	P	05/01/2025	20:28	LB135636
	Chromium	10.0	+/-10.0	U	10.0	P	05/01/2025	20:28	LB135636
	Lead	12.0	+/-12.0	U	12.0	P	05/01/2025	20:28	LB135636
	Selenium	20.0	+/-20.0	U	20.0	P	05/01/2025	20:28	LB135636
	Silver	10.0	+/-10.0	U	10.0	P	05/01/2025	20:28	LB135636

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Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2025	15:08	LB135654
	Barium	100	+/-100	U	100	P	05/02/2025	15:08	LB135654
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2025	15:08	LB135654
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2025	15:08	LB135654
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2025	15:08	LB135654
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2025	15:08	LB135654
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2025	15:08	LB135654

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Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2025	16:05	LB135654
	Barium	100	+/-100	U	100	P	05/02/2025	16:05	LB135654
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2025	16:05	LB135654
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2025	16:05	LB135654
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2025	16:05	LB135654
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2025	16:05	LB135654
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2025	16:05	LB135654
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2025	16:38	LB135654
	Barium	100	+/-100	U	100	P	05/02/2025	16:38	LB135654
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2025	16:38	LB135654
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2025	16:38	LB135654
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2025	16:38	LB135654
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2025	16:38	LB135654
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2025	16:38	LB135654

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	14:41	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	14:41	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	14:41	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	14:41	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	14:41	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	14:41	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	14:41	LB135674

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	15:26	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	15:26	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	15:26	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	15:26	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	15:26	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	15:26	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	15:26	LB135674
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	16:12	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	16:12	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	16:12	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	16:12	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	16:12	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	16:12	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	16:12	LB135674
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	17:00	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	17:00	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	17:00	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	17:00	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	17:00	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	17:00	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	17:00	LB135674
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	17:59	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	17:59	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	17:59	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	17:59	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	17:59	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	17:59	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	17:59	LB135674
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	18:47	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	18:47	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	18:47	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	18:47	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	18:47	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	18:47	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	18:47	LB135674
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	19:37	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	19:37	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	19:37	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	19:37	LB135674

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	19:37	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	19:37	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	19:37	LB135674
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	20:23	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	20:23	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	20:23	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	20:23	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	20:23	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	20:23	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	20:23	LB135674
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	21:12	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	21:12	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	21:12	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	21:12	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	21:12	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	21:12	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	21:12	LB135674
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	22:03	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	22:03	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	22:03	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	22:03	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	22:03	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	22:03	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	22:03	LB135674
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	05/05/2025	22:37	LB135674
	Barium	100	+/-100	U	100	P	05/05/2025	22:37	LB135674
	Cadmium	6.00	+/-6.00	U	6.00	P	05/05/2025	22:37	LB135674
	Chromium	10.0	+/-10.0	U	10.0	P	05/05/2025	22:37	LB135674
	Lead	12.0	+/-12.0	U	12.0	P	05/05/2025	22:37	LB135674
	Selenium	20.0	+/-20.0	U	20.0	P	05/05/2025	22:37	LB135674
	Silver	10.0	+/-10.0	U	10.0	P	05/05/2025	22:37	LB135674

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	15:27	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	15:27	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	15:27	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	15:27	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	15:27	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	15:27	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	15:27	LB135689

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	16:34	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	16:34	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	16:34	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	16:34	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	16:34	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	16:34	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	16:34	LB135689
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	17:20	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	17:20	LB135689
	Cadmium	0.60	+/-6.00	J	6.00	P	05/06/2025	17:20	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	17:20	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	17:20	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	17:20	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	17:20	LB135689
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	18:13	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	18:13	LB135689
	Cadmium	0.59	+/-6.00	J	6.00	P	05/06/2025	18:13	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	18:13	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	18:13	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	18:13	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	18:13	LB135689
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	19:20	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	19:20	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	19:20	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	19:20	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	19:20	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	19:20	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	19:20	LB135689
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	20:06	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	20:06	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	20:06	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	20:06	LB135689
	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	20:06	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	20:06	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	20:06	LB135689
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	05/06/2025	20:35	LB135689
	Barium	100	+/-100	U	100	P	05/06/2025	20:35	LB135689
	Cadmium	6.00	+/-6.00	U	6.00	P	05/06/2025	20:35	LB135689
	Chromium	10.0	+/-10.0	U	10.0	P	05/06/2025	20:35	LB135689

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	05/06/2025	20:35	LB135689
	Selenium	20.0	+/-20.0	U	20.0	P	05/06/2025	20:35	LB135689
	Silver	10.0	+/-10.0	U	10.0	P	05/06/2025	20:35	LB135689

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167805TB		**WATER**		**Batch Number:**	**PB167807**		**Prep Date:**	**04/30/2025**	
	Mercury	2.00	<2.00	U	2.00	CV	05/01/2025	14:47	LB135623
PB167807BL		**WATER**		**Batch Number:**	**PB167807**		**Prep Date:**	**04/30/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	05/01/2025	13:30	LB135623
PB167815TB		**WATER**		**Batch Number:**	**PB167839**		**Prep Date:**	**05/05/2025**	
	Mercury	2.00	<2.00	U	2.00	CV	05/05/2025	13:26	LB135662
PB167839BL		**WATER**		**Batch Number:**	**PB167839**		**Prep Date:**	**05/05/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	05/05/2025	11:42	LB135662

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: AECOM **SDG No.:** Q1913

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167774TB		**WATER**		**Batch Number:**	**PB167808**		**Prep Date:**	**04/30/2025**	
	Arsenic	100	<100	U	100	P	05/01/2025	16:37	LB135636
	Barium	500	<500	U	500	P	05/01/2025	16:37	LB135636
	Cadmium	30.0	<30.0	U	30.0	P	05/01/2025	16:37	LB135636
	Chromium	50.0	<50.0	U	50.0	P	05/01/2025	16:37	LB135636
	Lead	60.0	<60.0	U	60.0	P	05/01/2025	16:37	LB135636
	Selenium	100	<100	U	100	P	05/01/2025	16:37	LB135636
	Silver	50.0	<50.0	U	50.0	P	05/01/2025	16:37	LB135636

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167805TB		**WATER**		**Batch Number:**	**PB167808**		**Prep Date:**	**04/30/2025**	
	Arsenic	100	<100	U	100	P	05/01/2025	20:20	LB135636
	Barium	500	<500	U	500	P	05/01/2025	20:20	LB135636
	Cadmium	30.0	<30.0	U	30.0	P	05/01/2025	20:20	LB135636
	Chromium	15.9	<50.0	J	50.0	P	05/01/2025	20:20	LB135636
	Lead	60.0	<60.0	U	60.0	P	05/01/2025	20:20	LB135636
	Selenium	100	<100	U	100	P	05/01/2025	20:20	LB135636
	Silver	50.0	<50.0	U	50.0	P	05/01/2025	20:20	LB135636

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167808BL		**WATER**		**Batch Number:**	**PB167808**		**Prep Date:**	**04/30/2025**	
	Arsenic	100	<100	U	100	P	05/01/2025	16:23	LB135636
	Barium	500	<500	U	500	P	05/01/2025	16:23	LB135636
	Cadmium	30.0	<30.0	U	30.0	P	05/01/2025	16:23	LB135636
	Chromium	50.0	<50.0	U	50.0	P	05/01/2025	16:23	LB135636
	Lead	60.0	<60.0	U	60.0	P	05/01/2025	16:23	LB135636
	Selenium	100	<100	U	100	P	05/01/2025	16:23	LB135636
	Silver	50.0	<50.0	U	50.0	P	05/01/2025	16:23	LB135636

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167868BL		**WATER**		**Batch Number:**	**PB167868**		**Prep Date:**	**05/05/2025**	
	Arsenic	100	<100	U	100	P	05/05/2025	18:10	LB135674
	Barium	500	<500	U	500	P	05/05/2025	18:10	LB135674
	Cadmium	30.0	<30.0	U	30.0	P	05/05/2025	18:10	LB135674
	Chromium	50.0	<50.0	U	50.0	P	05/05/2025	18:10	LB135674
	Lead	60.0	<60.0	U	60.0	P	05/05/2025	18:10	LB135674
	Selenium	100	<100	U	100	P	05/05/2025	18:10	LB135674
	Silver	50.0	<50.0	U	50.0	P	05/05/2025	18:10	LB135674

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Metals
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INTERFERENCE CHECK SAMPLE

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	2.11			-20	20	05/01/2025	14:35	LB135636
	Barium	0.52	6.0	9	-94	106	05/01/2025	14:35	LB135636
	Cadmium	-4.57	1.0	457	-5	7	05/01/2025	14:35	LB135636
	Chromium	53.0	52.0	102	42	62	05/01/2025	14:35	LB135636
	Lead	-4.15			-12	12	05/01/2025	14:35	LB135636
	Selenium	-9.38			-20	20	05/01/2025	14:35	LB135636
	Silver	1.45			-10	10	05/01/2025	14:35	LB135636
ICSAB01	Arsenic	120	104	115	88.4	120	05/01/2025	14:39	LB135636
	Barium	487	537	91	437	637	05/01/2025	14:39	LB135636
	Cadmium	1080	972	111	826	1120	05/01/2025	14:39	LB135636
	Chromium	583	542	108	460	624	05/01/2025	14:39	LB135636
	Lead	52.5	49.0	107	37	61	05/01/2025	14:39	LB135636
	Selenium	45.9	46.0	100	26	66	05/01/2025	14:39	LB135636
	Silver	203	201	101	170	232	05/01/2025	14:39	LB135636
ICSA01	Arsenic	0.098			-20	20	05/02/2025	15:30	LB135654
	Barium	-5.67	6.0	94	-94	106	05/02/2025	15:30	LB135654
	Cadmium	-2.89	1.0	289	-5	7	05/02/2025	15:30	LB135654
	Chromium	53.8	52.0	104	42	62	05/02/2025	15:30	LB135654
	Lead	4.14			-12	12	05/02/2025	15:30	LB135654
	Selenium	-1.90			-20	20	05/02/2025	15:30	LB135654
	Silver	-0.66			-10	10	05/02/2025	15:30	LB135654
ICSAB01	Arsenic	115	104	111	88.4	120	05/02/2025	15:46	LB135654
	Barium	464	537	86	437	637	05/02/2025	15:46	LB135654
	Cadmium	996	972	102	826	1120	05/02/2025	15:46	LB135654
	Chromium	560	542	103	460	624	05/02/2025	15:46	LB135654
	Lead	51.7	49.0	106	37	61	05/02/2025	15:46	LB135654
	Selenium	57.3	46.0	125	26	66	05/02/2025	15:46	LB135654
	Silver	193	201	96	170	232	05/02/2025	15:46	LB135654
ICSA01	Arsenic	4.47			-20	20	05/05/2025	14:52	LB135674
	Barium	0.40	6.0	7	-94	106	05/05/2025	14:52	LB135674
	Cadmium	-1.99	1.0	199	-5	7	05/05/2025	14:52	LB135674
	Chromium	53.8	52.0	104	42	62	05/05/2025	14:52	LB135674
	Lead	-1.42			-12	12	05/05/2025	14:52	LB135674
	Selenium	-15.2			-20	20	05/05/2025	14:52	LB135674
	Silver	0.79			-10	10	05/05/2025	14:52	LB135674
ICSAB01	Arsenic	112	104	108	88.4	120	05/05/2025	15:07	LB135674
	Barium	496	537	92	437	637	05/05/2025	15:07	LB135674
	Cadmium	1050	972	108	826	1120	05/05/2025	15:07	LB135674
	Chromium	572	542	106	460	624	05/05/2025	15:07	LB135674
	Lead	48.4	49.0	99	37	61	05/05/2025	15:07	LB135674
	Selenium	35.7	46.0	78	26	66	05/05/2025	15:07	LB135674

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Metals
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INTERFERENCE CHECK SAMPLE

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Silver	195	201	97	170	232	05/05/2025	15:07	LB135674
ICSA01	Arsenic	4.12			-20	20	05/06/2025	15:50	LB135689
	Barium	2.93	6.0	49	-94	106	05/06/2025	15:50	LB135689
	Cadmium	-2.60	1.0	260	-5	7	05/06/2025	15:50	LB135689
	Chromium	52.9	52.0	102	42	62	05/06/2025	15:50	LB135689
	Lead	0.71			-12	12	05/06/2025	15:50	LB135689
	Selenium	-10.5			-20	20	05/06/2025	15:50	LB135689
	Silver	0.23			-10	10	05/06/2025	15:50	LB135689
ICSAB01	Arsenic	114	104	110	88.4	120	05/06/2025	15:55	LB135689
	Barium	512	537	95	437	637	05/06/2025	15:55	LB135689
	Cadmium	1060	972	109	826	1120	05/06/2025	15:55	LB135689
	Chromium	576	542	106	460	624	05/06/2025	15:55	LB135689
	Lead	48.7	49.0	99	37	61	05/06/2025	15:55	LB135689
	Selenium	41.3	46.0	90	26	66	05/06/2025	15:55	LB135689
	Silver	195	201	97	170	232	05/06/2025	15:55	LB135689

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q1913

contract: AECO02 **lab code:** CHEM **case no.:** Q1913 **sas no.:** Q1913

matrix: Water **sample id:** Q1913-02 **client id:** WC-12-A-202504MS

Percent Solids for Sample: NA **Spiked ID:** Q1913-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4220		100	U	4000	106		P
Barium	ug/L	75 - 125	1020		500	U	1000	102		P
Cadmium	ug/L	75 - 125	943		30.0	U	1000	94		P
Chromium	ug/L	75 - 125	2180		122		2000	103		P
Lead	ug/L	75 - 125	4570		60.0	U	5000	91		P
Mercury	ug/L	75 - 125	31.2		2.00	U	40.0	78		CV
Selenium	ug/L	75 - 125	10100		100	U	10000	101		P
Silver	ug/L	75 - 125	385		50.0	U	380	101		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q1913

contract: AECO02 **lab code:** CHEM **case no.:** Q1913 **sas no.:** Q1913

matrix: Water **sample id:** Q1913-02 **client id:** WC-12-A-202504MSD

Percent Solids for Sample: NA **Spiked ID:** Q1913-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4060		100	U	4000	102		P
Barium	ug/L	75 - 125	965		500	U	1000	96		P
Cadmium	ug/L	75 - 125	908		30.0	U	1000	91		P
Chromium	ug/L	75 - 125	2100		122		2000	99		P
Lead	ug/L	75 - 125	4400		60.0	U	5000	88		P
Mercury	ug/L	75 - 125	31.3		2.00	U	40.0	78		CV
Selenium	ug/L	75 - 125	9630		100	U	10000	96		P
Silver	ug/L	75 - 125	366		50.0	U	380	96		P

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metals
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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q1913

contract: AECO02 **lab code:** CHEM **case no.:** Q1913 **sas no.:** Q1913

matrix: Water **sample id:** Q1913-03 **client id:** WC-13-S-202504MS

Percent Solids for Sample: NA **Spiked ID:** Q1913-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3430		100	U	4000	86		P
Barium	ug/L	75 - 125	1920		1170		1000	75		P
Cadmium	ug/L	75 - 125	864		30.0	U	1000	86		P
Chromium	ug/L	75 - 125	1740		50.0	U	2000	87		P
Lead	ug/L	75 - 125	4170		60.0	U	5000	83		P
Selenium	ug/L	75 - 125	8390		100	U	10000	84		P
Silver	ug/L	75 - 125	321		50.0	U	380	84		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q1913

contract: AECO02 **lab code:** CHEM **case no.:** Q1913 **sas no.:** Q1913

matrix: Water **sample id:** Q1913-03 **client id:** WC-13-S-202504MSD

Percent Solids for Sample: NA **Spiked ID:** Q1913-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3610		100	U	4000	90		P
Barium	ug/L	75 - 125	2110		1170		1000	94		P
Cadmium	ug/L	75 - 125	907		30.0	U	1000	91		P
Chromium	ug/L	75 - 125	1780		50.0	U	2000	89		P
Lead	ug/L	75 - 125	4360		60.0	U	5000	87		P
Selenium	ug/L	75 - 125	8850		100	U	10000	88		P
Silver	ug/L	75 - 125	332		50.0	U	380	87		P

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metals
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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q1913

contract: AECO02 **lab code:** CHEM **case no.:** Q1913 **sas no.:** Q1913

matrix: Water **sample id:** Q1935-08 **client id:** MH-MMMS

Percent Solids for Sample: NA **Spiked ID:** Q1935-08MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	44.8		2.00	U	40.0	112		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q1913

contract: AECO02 **lab code:** CHEM **case no.:** Q1913 **sas no.:** Q1913

matrix: Water **sample id:** Q1935-08 **client id:** MH-MMMSD

Percent Solids for Sample: NA **Spiked ID:** Q1935-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	32.1		2.00	U	40.0	80		CV

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Metals
- 5b -

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: Water **Sample ID:** Q1913-02 **Client ID:** WC-12-A-202504DUP

Percent Solids for Sample: NA **Duplicate ID** Q1913-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	500	U	500	U			P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	122		113		8		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: Water **Sample ID:** Q1913-02MS **Client ID:** WC-12-A-202504MSD

Percent Solids for Sample: NA **Duplicate ID** Q1913-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4220		4060		4		P
Barium	ug/L	20	1020		965		6		P
Cadmium	ug/L	20	943		908		4		P
Chromium	ug/L	20	2180		2100		4		P
Lead	ug/L	20	4570		4400		4		P
Mercury	ug/L	20	31.2		31.3		0		CV
Selenium	ug/L	20	10100		9630		5		P
Silver	ug/L	20	385		366		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: Water **Sample ID:** Q1913-03 **Client ID:** WC-13-S-202504DUP

Percent Solids for Sample: NA **Duplicate ID** Q1913-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	1170		902		26	*	P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	60.0	U	60.0	U			P
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: Water **Sample ID:** Q1913-03MS **Client ID:** WC-13-S-202504MSD

Percent Solids for Sample: NA **Duplicate ID** Q1913-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3430		3610		5		P
Barium	ug/L	20	1920		2110		9		P
Cadmium	ug/L	20	864		907		5		P
Chromium	ug/L	20	1740		1780		2		P
Lead	ug/L	20	4170		4360		4		P
Selenium	ug/L	20	8390		8850		5		P
Silver	ug/L	20	321		332		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: Water **Sample ID:** Q1935-08 **Client ID:** MH-MMDUP

Percent Solids for Sample: NA **Duplicate ID** Q1935-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.00	U	2.00	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: AECOM **Level:** LOW **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Matrix: Water **Sample ID:** Q1935-08MS **Client ID:** MH-MMMSD

Percent Solids for Sample: NA **Duplicate ID** Q1935-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	44.8		32.1		33	*	CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167807BS							
Mercury	ug/L	4.0	4.14		104	80 - 120	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167808BS							
Arsenic	ug/L	4000	3770		94	80 - 120	P
Barium	ug/L	1000	826		83	80 - 120	P
Cadmium	ug/L	1000	943		94	80 - 120	P
Chromium	ug/L	2000	1870		94	80 - 120	P
Lead	ug/L	5000	4630		93	80 - 120	P
Selenium	ug/L	10000	9600		96	80 - 120	P
Silver	ug/L	380	346		91	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167839BS							
Mercury	ug/L	4.0	4.05		101	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167868BS							
Arsenic	ug/L	4000	3800		95	80 - 120	P
Barium	ug/L	1000	825		82	80 - 120	P
Cadmium	ug/L	1000	923		92	80 - 120	P
Chromium	ug/L	2000	1800		90	80 - 120	P
Lead	ug/L	5000	4560		91	80 - 120	P
Selenium	ug/L	10000	9530		95	80 - 120	P
Silver	ug/L	380	337		89	80 - 120	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-12-A-202504L

Lab Name: Chemtech Consulting Group **Contract:** AECO02

Lab Code: CHEM **Lb No.:** lb135654 **Lab Sample ID :** Q1913-02L **SDG No.:** Q1913

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	500	U	2500	U			P
Cadmium	30.0	U	150	U			P
Chromium	122		122	J	0		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-13-S-202504L

Lab Name: Chemtech Consulting Group **Contract:** AECO02

Lab Code: CHEM **Lb No.:** lb135689 **Lab Sample ID :** Q1913-03L **SDG No.:** Q1913

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	1170		1470	J	26		P
Cadmium	30.0	U	150	U			P
Chromium	50.0	U	250	U			P
Lead	60.0	U	300	U			P
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ICP SERIAL DILUTIONS

SAMPLE NO.

MH-MML

Lab Name: Chemtech Consulting Group **Contract:** AECO02

Lab Code: CHEM **Lb No.:** lb135662 **Lab Sample ID :** Q1935-08L **SDG No.:** Q1913

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	2.00	U	10.0	U			CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Case No.:** Q1913 **SAS No.:** Q1913

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Method:**

Case No.: Q1913 **SAS No.:** Q1913

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167807**						
PB167805TB	PB167805TB	MB	WATER	04/30/2025	3.0	30.0	
PB167807BL	PB167807BL	MB	WATER	04/30/2025	30.0	30.0	
PB167807BS	PB167807BS	LCS	WATER	04/30/2025	30.0	30.0	
Q1913-02	WC-12-A-202504	SAM	WATER	04/30/2025	3.0	30.0	
Q1913-02DUP	WC-12-A-202504DUP	DUP	WATER	04/30/2025	3.0	30.0	
Q1913-02MS	WC-12-A-202504MS	MS	WATER	04/30/2025	3.0	30.0	
Q1913-02MSD	WC-12-A-202504MSD	MSD	WATER	04/30/2025	3.0	30.0	
Q1913-04	WC-13-A-202504	SAM	WATER	04/30/2025	3.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Method:**

Case No.: Q1913 **SAS No.:** Q1913

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167808**						
PB167774TB	PB167774TB	MB	WATER	04/30/2025	5.0	25.0	
PB167805TB	PB167805TB	MB	WATER	04/30/2025	5.0	25.0	
PB167808BL	PB167808BL	MB	WATER	04/30/2025	5.0	25.0	
PB167808BS	PB167808BS	LCS	WATER	04/30/2025	5.0	25.0	
Q1913-02	WC-12-A-202504	SAM	WATER	04/30/2025	5.0	25.0	
Q1913-02DUP	WC-12-A-202504DUP	DUP	WATER	04/30/2025	5.0	25.0	
Q1913-02MS	WC-12-A-202504MS	MS	WATER	04/30/2025	5.0	25.0	
Q1913-02MSD	WC-12-A-202504MSD	MSD	WATER	04/30/2025	5.0	25.0	
Q1913-04	WC-13-A-202504	SAM	WATER	04/30/2025	5.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Method:**

Case No.: Q1913 **SAS No.:** Q1913

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167839**						
PB167815TB	PB167815TB	MB	WATER	05/05/2025	3.0	30.0	
PB167839BL	PB167839BL	MB	WATER	05/05/2025	30.0	30.0	
PB167839BS	PB167839BS	LCS	WATER	05/05/2025	30.0	30.0	
Q1913-01	WC-12-S-202504	SAM	WATER	05/05/2025	3.0	30.0	
Q1913-03	WC-13-S-202504	SAM	WATER	05/05/2025	3.0	30.0	
Q1935-08DUP	MH-MMDUP	DUP	WATER	05/05/2025	3.0	30.0	
Q1935-08MS	MH-MMMS	MS	WATER	05/05/2025	3.0	30.0	
Q1935-08MSD	MH-MMMSD	MSD	WATER	05/05/2025	3.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: AECOM **SDG No.:** Q1913

Contract: AECO02 **Lab Code:** CHEM **Method:**

Case No.: Q1913 **SAS No.:** Q1913

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167868**						
PB167868BL	PB167868BL	MB	WATER	05/05/2025	5.0	25.0	
PB167868BS	PB167868BS	LCS	WATER	05/05/2025	5.0	25.0	
Q1913-01	WC-12-S-202504	SAM	WATER	05/05/2025	5.0	25.0	
Q1913-03	WC-13-S-202504	SAM	WATER	05/05/2025	5.0	25.0	
Q1913-03DUP	WC-13-S-202504DUP	DUP	WATER	05/05/2025	5.0	25.0	
Q1913-03MS	WC-13-S-202504MS	MS	WATER	05/05/2025	5.0	25.0	
Q1913-03MSD	WC-13-S-202504MSD	MSD	WATER	05/05/2025	5.0	25.0	

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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: CHEM **Case no.:** Q1913 **Sas no.:** Q1913 **Sdg no.:** Q1913

Instrument id number: **Method:** **Run number:** LB135623

Start date: 05/01/2025 **End date:** 05/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	HG
S0.2	S0.2	1	1119	HG
S2.5	S2.5	1	1122	HG
S5	S5	1	1126	HG
S7.5	S7.5	1	1131	HG
S10	S10	1	1136	HG
ICV112	ICV112	1	1147	HG
ICB112	ICB112	1	1149	HG
CCV62	CCV62	1	1158	HG
CCB62	CCB62	1	1201	HG
CRA	CRA	1	1205	HG
CCV63	CCV63	1	1249	HG
CCB63	CCB63	1	1251	HG
CCV64	CCV64	1	1319	HG
CCB64	CCB64	1	1323	HG
PB167807BL	PB167807BL	1	1330	HG
PB167807BS	PB167807BS	1	1342	HG
Q1913-02	WC-12-A-202504	1	1344	HG
Q1913-02DUP	WC-12-A-202504DUP	1	1346	HG
Q1913-02MS	WC-12-A-202504MS	1	1349	HG
Q1913-02MSD	WC-12-A-202504MSD	1	1351	HG
Q1913-04	WC-13-A-202504	1	1353	HG
CCV65	CCV65	1	1358	HG
CCB65	CCB65	1	1402	HG
CCV66	CCV66	1	1429	HG
CCB66	CCB66	1	1440	HG
PB167805TB	PB167805TB	1	1447	HG
Q1913-02L	WC-12-A-202504L	5	1502	HG
CCV67	CCV67	1	1523	HG
CCB67	CCB67	1	1525	HG

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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: CHEM **Case no.:** Q1913 **Sas no.:** Q1913 **Sdg no.:** Q1913

Instrument id number: **Method:** **Run number:** LB135636

Start date: 05/01/2025 **End date:** 05/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1227	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1231	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1236	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1240	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1244	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1248	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1344	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1411	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1416	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1439	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1505	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1512	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1600	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1604	Ag,As,Ba,Cd,Cr,Pb,Se
PB167808BL	PB167808BL	1	1623	Ag,As,Ba,Cd,Cr,Pb,Se
PB167808BS	PB167808BS	1	1633	Ag,As,Ba,Cd,Cr,Pb,Se
PB167774TB	PB167774TB	1	1637	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1703	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1707	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1749	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1753	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1836	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1840	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1923	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1927	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-04	WC-13-A-202504	1	2002	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	2011	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2015	Ag,As,Ba,Cd,Cr,Pb,Se
PB167805TB	PB167805TB	1	2020	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2024	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2028	Ag,As,Ba,Cd,Cr,Pb,Se

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metals
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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: CHEM **Case no.:** Q1913 **Sas no.:** Q1913 **Sdg no.:** Q1913

Instrument id number: **Method:** **Run number:** LB135654

Start date: 05/02/2025 **End date:** 05/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1234	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1238	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1242	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1246	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1251	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1255	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1347	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1503	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1508	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1512	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1530	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1546	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1601	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1605	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02	WC-12-A-202504	1	1609	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02DUP	WC-12-A-202504DUP	1	1613	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02L	WC-12-A-202504L	5	1618	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02MS	WC-12-A-202504MS	1	1622	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-02MSD	WC-12-A-202504MSD	1	1626	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1634	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se

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metals
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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: CHEM **Case no.:** Q1913 **Sas no.:** Q1913 **Sdg no.:** Q1913

Instrument id number: **Method:** **Run number:** LB135662

Start date: 05/05/2025 **End date:** 05/05/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1059	HG
S0.2	S0.2	1	1101	HG
S2.5	S2.5	1	1103	HG
S5	S5	1	1106	HG
S7.5	S7.5	1	1108	HG
S10	S10	1	1113	HG
ICV114	ICV114	1	1116	HG
ICB114	ICB114	1	1118	HG
CCV71	CCV71	1	1125	HG
CCB71	CCB71	1	1130	HG
CRA	CRA	1	1133	HG
PB167839BL	PB167839BL	1	1142	HG
PB167839BS	PB167839BS	1	1144	HG
CCV72	CCV72	1	1158	HG
CCB72	CCB72	1	1203	HG
CCV73	CCV73	1	1228	HG
CCB73	CCB73	1	1238	HG
Q1935-08DUP	MH-MMDUP	1	1245	HG
Q1935-08MS	MH-MMMS	1	1247	HG
Q1935-08MSD	MH-MMMSD	1	1250	HG
CCV74	CCV74	1	1303	HG
CCB74	CCB74	1	1306	HG
PB167815TB	PB167815TB	1	1326	HG
Q1935-08L	MH-MML	5	1328	HG
CCV75	CCV75	1	1341	HG
CCB75	CCB75	1	1343	HG
Q1913-01	WC-12-S-202504	1	1345	HG
Q1913-03	WC-13-S-202504	1	1348	HG
CCV76	CCV76	1	1352	HG
CCB76	CCB76	1	1355	HG

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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: CHEM **Case no.:** Q1913 **Sas no.:** Q1913 **Sdg no.:** Q1913

Instrument id number: **Method:** **Run number:** LB135674

Start date: 05/05/2025 **End date:** 05/05/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1302	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1307	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1311	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1315	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1319	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1324	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1418	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1436	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1441	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1447	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1452	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1507	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1520	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1526	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1607	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1612	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-01	WC-12-S-202504	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1700	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1755	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1759	Ag,As,Ba,Cd,Cr,Pb,Se
PB167868BL	PB167868BL	1	1810	Ag,As,Ba,Cd,Cr,Pb,Se
PB167868BS	PB167868BS	1	1814	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1843	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1847	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1932	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1937	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	2019	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2023	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2107	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2112	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2159	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2203	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2233	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2237	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: AECOM **Contract:** AECO02

Lab code: CHEM **Case no.:** Q1913 **Sas no.:** Q1913 **Sdg no.:** Q1913

Instrument id number: **Method:** **Run number:** LB135689

Start date: 05/06/2025 **End date:** 05/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1343	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1348	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1352	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1356	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1447	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1522	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1527	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1531	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1550	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1555	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1629	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1634	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1715	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1720	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-03	WC-13-S-202504	1	1743	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-03DUP	WC-13-S-202504DUP	1	1747	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-03L	WC-13-S-202504L	5	1751	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-03MS	WC-13-S-202504MS	1	1756	Ag,As,Ba,Cd,Cr,Pb,Se
Q1913-03MSD	WC-13-S-202504MSD	1	1800	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1808	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1813	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1916	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1920	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	2001	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	2006	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	2031	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	2035	Ag,As,Ba,Cd,Cr,Pb,Se

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LAB CHRONICLE

OrderID:	Q1913	**OrderDate:**	4/29/2025 2:15:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1913-01	**WC-12-S-202504**	**SOIL**			**04/29/25 07:00**			**04/29/25**
			Corrosivity	9045D			05/02/25 16:30	
			Ignitability	1030			05/05/25 09:35	
			Paint Filter	9095B			05/02/25 16:00	
			Reactive Cyanide	9012B		05/02/25	05/02/25 15:23	
			Reactive Sulfide	9034		05/02/25	05/02/25 15:36	
Q1913-02	**WC-12-A-202504**	**Water**			**04/29/25 07:00**			**04/29/25**
			Flash Point	1010B			05/01/25 10:15	
			pH	9040C			04/30/25 11:48	
			Reactive Cyanide	9012B		04/30/25	04/30/25 12:01	
			Reactive Sulfide	9034		05/01/25	05/01/25 11:38	
Q1913-03	**WC-13-S-202504**	**SOIL**			**04/29/25 07:30**			**04/29/25**
			Corrosivity	9045D			05/02/25 16:35	
			Ignitability	1030			05/05/25 09:50	
			Paint Filter	9095B			05/02/25 16:07	

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LAB CHRONICLE

			Reactive Cyanide	9012B		05/02/25	05/02/25 15:23
			Reactive Sulfide	9034		05/02/25	05/02/25 15:40
Q1913-04	**WC-13-A-202504**	**Water**			**04/29/25 07:30**		**04/29/25**
			Flash Point	1010B			05/01/25 11:15
			pH	9040C			04/30/25 12:00
			Reactive Cyanide	9012B		04/30/25	04/30/25 12:01
			Reactive Sulfide	9034		05/01/25	05/01/25 11:44

SAMPLE DATA

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25 07:00
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-01	Matrix:	SOIL
		% Solid:	80.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.22	H	1	0	0	pH		05/02/25 16:30	9045D
Ignitability	NO		1	0	0	oC		05/05/25 09:35	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		05/02/25 16:00	9095B
Reactive Cyanide	0.010	J	1	0.0083	0.049	mg/Kg	05/02/25 13:20	05/02/25 15:23	9012B
Reactive Sulfide	3.16	J	1	0.20	10.0	mg/Kg	05/02/25 13:20	05/02/25 15:36	9034

Comments: pH result reported at temperature 22.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25 07:00
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-12-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-02	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		05/01/25 10:15	1010B
pH	11.9	H	1	0	0	pH		04/30/25 11:48	9040C
Reactive Cyanide	0.00096	U	1	0.00096	0.0050	mg/L	04/30/25 08:50	04/30/25 12:01	9012B
Reactive Sulfide	0.43	U	1	0.43	1.00	mg/L	05/01/25 08:50	05/01/25 11:38	9034

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25 07:30
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-S-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-03	Matrix:	SOIL
		% Solid:	83.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.05	H	1	0	0	pH		05/02/25 16:35	9045D
Ignitability	NO		1	0	0	oC		05/05/25 09:50	1030
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		05/02/25 16:07	9095B
Reactive Cyanide	0.011	J	1	0.0083	0.050	mg/Kg	05/02/25 13:20	05/02/25 15:23	9012B
Reactive Sulfide	1.59	J	1	0.20	10.0	mg/Kg	05/02/25 13:20	05/02/25 15:40	9034

Comments: pH result reported at temperature 22.4 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	AECOM	Date Collected:	04/29/25 07:30
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	04/29/25
Client Sample ID:	WC-13-A-202504	SDG No.:	Q1913
Lab Sample ID:	Q1913-04	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		05/01/25 11:15	1010B
pH	12.2	H	1	0	0	pH		04/30/25 12:00	9040C
Reactive Cyanide	0.00096	U	1	0.00096	0.0050	mg/L	04/30/25 08:50	04/30/25 12:01	9012B
Reactive Sulfide	0.48	J	1	0.43	1.00	mg/L	05/01/25 08:50	05/01/25 11:44	9034

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS **RunNo.:** LB135606

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.01	7	100	90-110	04/30/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	04/30/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	04/30/2025

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Initial and Continuing Calibration Verification

Client:	AECOM	**SDG No.:**	Q1913
Project:	Meeker Ave Plumes Superfund Site RI FS	**RunNo.:**	LB135608

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.092	0.099	93	85-115	04/30/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	04/30/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.23	0.25	92	90-110	04/30/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	04/30/2025

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Initial and Continuing Calibration Verification

Client:	AECOM	**SDG No.:**	Q1913
Project:	Meeker Ave Plumes Superfund Site RI FS	**RunNo.:**	LB135628

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.1	81	101	78-84	05/01/2025

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Initial and Continuing Calibration Verification

Client:	AECOM	**SDG No.:**	Q1913
Project:	Meeker Ave Plumes Superfund Site RI FS	**RunNo.:**	LB135649

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Corrosivity		pH	7.01	7	100	90-110	05/02/2025
Sample ID:	**CCV1**						
Corrosivity		pH	2.02	2.00	101	90-110	05/02/2025
Sample ID:	**CCV2**						
Corrosivity		pH	12.02	12.00	100	90-110	05/02/2025

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Initial and Continuing Calibration Verification

Client:	AECOM	**SDG No.:**	Q1913
Project:	Meeker Ave Plumes Superfund Site RI FS	**RunNo.:**	LB135650

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.095	0.099	96	85-115	05/02/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	05/02/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	05/02/2025

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Initial and Continuing Calibration Blank Summary

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS **RunNo.:** LB135608

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/30/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/30/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/30/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/30/2025

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Initial and Continuing Calibration Blank Summary

Client:	AECOM	**SDG No.:**	Q1913
Project:	Meeker Ave Plumes Superfund Site RI FS	**RunNo.:**	LB135650

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	0.0016	0.0025	J	0.00096	0.005	05/02/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	05/02/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	0.00098	0.0025	J	0.00096	0.005	05/02/2025

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Preparation Blank Summary

Client: AECOM **SDG No.:** Q1913

Project: Meeker Ave Plumes Superfund Site RI FS

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB167802BL							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/30/2025
Sample ID: PB167824BL							
Reactive Sulfide	mg/L	< 0.5000	0.5000	U	0.43	1	05/01/2025
Sample ID: PB167843BL							
Reactive Cyanide	mg/Kg	0.011	0.0250	J	0.0084	0.05	05/02/2025
Sample ID: PB167850BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	05/02/2025

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Duplicate Sample Summary

Client: AECOM
Project: Meeker Ave Plumes Superfund Site RI FS
Client ID: WC-12-S-202504DUP
SDG No.: Q1913
Sample ID: Q1913-01
Percent Solids for Spike Sample: 80.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		05/05/2025
Reactive Cyanide	mg/Kg	+/-20	0.010	J	0.011	J	1	10		05/02/2025
Reactive Sulfide	mg/Kg	+/-20	3.16	J	3.16	J	1	0		05/02/2025

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Duplicate Sample Summary

Client: AECOM
SDG No.: Q1913
Project: Meeker Ave Plumes Superfund Site RI FS
Sample ID: Q1913-02
Client ID: WC-12-A-202504DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/L	+/-20	0.00096	U	0.00096	U	1	0		04/30/2025
Flash Point	o F	+/-2	>212.0		>212.0		1	0		05/01/2025
Reactive Sulfide	mg/L	+/-20	0.43	U	0.43	U	1	0		05/01/2025

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Duplicate Sample Summary

Client: AECOM
SDG No.: Q1913
Project: Meeker Ave Plumes Superfund Site RI FS
Sample ID: Q1913-04
Client ID: WC-13-A-202504DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	12.2		12.2		1	0.08		04/30/2025

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Duplicate Sample Summary

Client: AECOM
SDG No.: Q1913
Project: Meeker Ave Plumes Superfund Site RI FS
Sample ID: Q1952-01
Client ID: CLEAN-FILLDUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		05/02/2025

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Duplicate Sample Summary

Client: AECOM
SDG No.: Q1913
Project: Meeker Ave Plumes Superfund Site RI FS
Sample ID: Q1955-01
Client ID: LAW-25-0066DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	5.75		5.76		1	0.17		05/02/2025

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1913
COC Number 2046702

11
11.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: AECOM
ADDRESS: 605 3rd Ave
CITY NEW YORK STATE: NY ZIP: 10158
ATTENTION: Amit Haryani
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Meeker Ave Superfund
PROJECT NO.: 60705866 LOCATION: Brooklyn
PROJECT MANAGER: Amit Haryani
e-mail: amit.haryani@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY SAME STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 3 days DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1 TCLP VOA
2 TCLP BBA
3 TCLP Metals Herkuns
4 Paint Filter
5 Reactive cyanide
6 Reactive Sulfide
7 pH
8 TCL Pesticides
9 PCBs Flashpoint

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	WC-12-A-202504	WATER	X		4/29/25	7:00	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.	WC-12-S-202504	SOIL	X		4/29/25	7:00	7	✓	✓								
3.	WC-13-A-202504	WATER	X		4/29/25	7:30	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4.	WC-13-S-202504	SOIL	X		4/29/25	7:30	7	✓	✓								
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Ewa Ponczkiewicz	4/29/25 1215	1. 4-29-25 1215
2.		2.
3.	4-29-25 1650	3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.2° °C
Comments: Temp 2.2° CAdjustment factor #1 IR Gun #1

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

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

From: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Sent: Thursday, May 01, 2025 8:04 PM
To: Yazmeen Gomez
Cc: Fairbanks, Peter; Haryani, Amit; Tan, Paul
Subject: RE: Chemtech/Alliance - Samples - 11/14

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Dear Yazmeen,

I believe that I missed parameter (corrosivity) for samples picked up on Tuesday. Below is a table with parameters for each sample. I believe that this is standard analysis but just want to make sure that everything is correct.

Sample Identifier/location	CLP Sample ID	Matrix	Analyses	Sample Type	Sample Date	Date Shipped
Alliance Technical Group Company						
WC-12-S-202504	NA	IDW - SOLID	Paint Filter 9095B Flashpoint 1010 PCB 8082A TCLP BNA 8270E TCLP Pesticide 8081B Corrosivity 9045C Reactive Cyanide 9014 Reactive Sulfide 9034 TCLP Extraction 1311 TCLP ICP Metals 6010D TCLP VOAS 8260 TCLP MERCURY – 7470A	IDW Sample	4/29/25	4/29/25

WC-12-A-202504	NA	IDW - AQUEOUS	TCLP BNA - 8270E pH-9040C FLASH POINT- 1010A PCB- 8082A TCLP PESTICDES- 8081B REACTIVE CYANIDE - 9012B REACTIVE SULFIDE- 9034 PAINT FILTER-9095B TCLP VOAS- 8260D TCLP ICP METAL - 6010B TCLP MERCURY – 7470A	IDW Sample	4/29/25	4/29/25
WC-13-S-202504	NA	IDW - SOLID	Paint Filter 9095B Flashpoint 1010 PCB 8082A TCLP BNA 8270E TCLP Pesticide 8081B Corrosivity 9045C Reactive Cyanide 9014 Reactive Sulfide 9034 TCLP Extraction 1311 TCLP ICP Metals 6010D TCLP VOAS 8260 TCLP MERCURY – 7470A	IDW Sample	4/29/25	4/29/25
WC-13-A-202504	NA	IDW - AQUEOUS	TCLP BNA - 8270E pH-9040C FLASH POINT- 1010A PCB- 8082A TCLP PESTICDES- 8081B REACTIVE CYANIDE - 9012B REACTIVE SULFIDE- 9034 PAINT FILTER-9095B TCLP VOAS- 8260D TCLP ICP METAL - 6010B TCLP MERCURY – 7470A	IDW Sample	4/29/25	4/29/25

I apologize for any inconvenience.

Ewa

From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Tuesday, April 29, 2025 9:59 AM
To: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Cc: Haryani, Amit <Amit.Haryani@aecom.com>; Tan, Paul <Paul.Tan@aecom.com>; Goldstein, Charlotte <charlotte.goldstein@aecom.com>
Subject: RE: Chemtech/Alliance - Samples - 11/14

Good morning,

5 days if you need results in a week or 10 days if you need standard TAT.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Sent: Tuesday, April 29, 2025 5:53 AM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Cc: Haryani, Amit <Amit.Haryani@aecom.com>; Tan, Paul <Paul.Tan@aecom.com>; Goldstein, Charlotte <charlotte.goldstein@aecom.com>
Subject: Re: Chemtech/Alliance - Samples - 11/14

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Good morning,

Can you please kindly help me and let me know what type of way turnaround I have to place on COC in order to receive the result in one week?

I appreciate your help.

Ewa

Get Outlook for iOS

From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Monday, April 28, 2025 3:21:51 PM
To: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Cc: Haryani, Amit <Amit.Haryani@aecom.com>; Tan, Paul <Paul.Tan@aecom.com>; Goldstein, Charlotte <charlotte.goldstein@aecom.com>
Subject: RE: Chemtech/Alliance - Samples - 11/14

Good afternoon,

No problem, Pick up confirmed for tomorrow afternoon.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Sent: Monday, April 28, 2025 2:24 PM
To: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Cc: Haryani, Amit <Amit.Haryani@aecom.com>; Tan, Paul <Paul.Tan@aecom.com>; Goldstein, Charlotte <charlotte.goldstein@aecom.com>
Subject: Re: Chemtech/Alliance - Samples - 11/14

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Good afternoon,

Is there any chance we can have samples pick up tmrr afternoon? Adres is 3660 Meeker Ave, however I may not be in the storage so please let the courier know to call me prior his arrival. I will let him know where to meet me.

If tomorrow doesn't work let me know if Thursday works for you.

I appreciate your help.

Ewa

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From: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Sent: Tuesday, April 15, 2025 9:37:20 AM
To: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Cc: Haryani, Amit <Amit.Haryani@aecom.com>; Tan, Paul <Paul.Tan@aecom.com>; Goldstein, Charlotte <charlotte.goldstein@aecom.com>
Subject: RE: Chemtech/Alliance - Samples - 11/14

Good morning,

Bottle order delivery confirmed – the courier will give you a call with an ETA.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: "Poncyliusz, Ewa" <Ewa.Poncyliusz@aecom.com>
Date: April 15, 2025 at 7:08:41 AM EDT
To: Kiran Saleem <kiran.saleem@alliancetg.com>, "Haryani, Amit" <Amit.Haryani@aecom.com>
Cc: "Tan, Paul" <Paul.Tan@aecom.com>, "Goldstein, Charlotte" <charlotte.goldstein@aecom.com>
Subject: RE: Chemtech/Alliance - Samples - 11/14

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Good morning,

Can we please have deliver 2 sets on aqueous waste characterization bottlewares for our Meeker Ave Superfund project? Delivery address is 3066 Review Ave. Please make sure that your courier will call me prior arrival because most likely I will be at the field nearby.

Thank you

Ewa

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Tuesday, March 4, 2025 1:06 PM
To: Haryani, Amit <Amit.Haryani@aecom.com>
Cc: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Subject: Re: Chemtech/Alliance - Samples - 11/14

Hello Amit and Ewa,

Hoping you are doing well. I am reaching out to check with you if you have any current or future projects with which we can help you with. Please let me know.

Thank you!

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Friday, November 15, 2024 4:17 PM
To: Haryani, Amit <Amit.Haryani@aecom.com>
Cc: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Subject: Re: Chemtech/Alliance - Samples - 11/14

Amit,

Thankyou.

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Regards,

<image001.png>

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Haryani, Amit <Amit.Haryani@aecom.com>
Sent: Friday, November 15, 2024 1:44 PM
To: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Cc: Poncyliusz, Ewa <Ewa.Poncyliusz@aecom.com>
Subject: RE: Chemtech/Alliance - Samples - 11/14

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Secured by Check Point

Dear Kiran

Please proceed as detailed below in your email.

Regards
Amit

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Friday, November 15, 2024 10:04 AM
To: Haryani, Amit <Amit.Haryani@aecom.com>
Subject: Chemtech/Alliance - Samples - 11/14

Good Morning Amit,

I hope this message finds you well. I wanted to inform you that the samples WC-10-A-202411 and WC-11-A-202411, which we received on 11/14, have been scheduled for cyanide analysis. As part of our standard protocol, we will be preserving a small volume of each sample for cyanide testing prior to conducting the analysis.

We are notifying you in advance as part of our procedure to keep you informed before proceeding with this step.

Thanks.

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Regards,

Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

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

Laboratory Certification

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