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

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : SOUTH RIVER WM REPLACEMENT

CDM SMITH

110 Fieldcrest Ave

Raritan Center

Edison, NJ - 08837

Phone No: 732-225-7000

ORDER ID : Q2458

ATTENTION : Marcie Ann Encinas

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2458

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2458-01	TP-76
Q2458-02	TP-55
Q2458-03	TP-68
Q2458-04	TP-67
Q2458-05	TP-66
Q2458-06	TP-60
Q2458-07	TP-62
Q2458-08	TP-63
Q2458-09	TP-59
Q2458-10	FB-06272025

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

Signature : _____

Date: 7/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

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 performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

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 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 VY022903.D met the requirements except for Acetone is failing high but associated sample having hit below CRQL 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.

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

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:
The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.

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 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.

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

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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

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

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 dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E 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 Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds due to matrix interference.
The MSD recoveries met the acceptable requirements due to matrix interference.

The RPD for {PB168716BSD} with File ID: BF143028.D met criteria except for 3,3-Dichlorobenzidine[35%], 4-Chloroaniline[22%],due to difference in results of BS and BSD.

The Blank Spike for {PB168674BS} with File ID: BF142991.D met requirements for all samples except for Butylbenzylphthalate[106%],is failing high but no positive hit in associate samples therefore no corrective action taken.

The Blank Spike for {PB168716BS} with File ID: BF143027.D met requirements for all samples except for Butylbenzylphthalate[106%],is failing high but no positive hit in associate samples therefore no corrective action taken.

The Blank Spike Duplicate met requirements for all samples .

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The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the Requirements.

The Continuous Calibration File ID BF142941.D met the requirements except for 4-Nitrophenol ,is marginally biased low therefore no Corrective action was taken.

The Continuous Calibration File ID BF142964.D met the requirements except for Hexachlorocyclopentadiene is marginally biased low therefore no Corrective action was taken.

The Continuous Calibration File ID BF143025.D met the requirements except for 2,4-Dinitrophenol,4-Nitrophenol and Pentachlorophenol,are biased failing high but no positive hit in associate samples therefore no corrective action taken.

The Tuning criteria met requirements.

Samples TP-63 was diluted due to dirty, concentrated and viscous matrix.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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

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.

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

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 Pesticide-TCLs was based on method 8081B 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 due to matrix interference.
The MSD recoveries met the acceptable requirements due to matrix interference.
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:

Sample TP-60 was reported with J flag on form 1 for compound 4,4-DDD and
Sample TP-62 was reported with J flag on form 1 for compound Heptachlor based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

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F. Manual Integration Comments:
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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: PCB

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. 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 analyses were performed on instrument GCECD_O. 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.

F. Manual Integration Comments:

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

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of Herbicides was based on method 8151A 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 {Q2458-01MS} with File ID: PS030949.D recoveries met the requirements for all compounds except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.
The MSD {Q2458-01MSD} with File ID: PS030950.D recoveries met the acceptable requirements except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.
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 .

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

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

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:
The analysis were performed on instrument FID_G and FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis of Diesel Range Organics was based on method 8015D 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 {Q2458-04MS} with File ID: FF016081.D recoveries met the requirements for all compounds except for DRO[35%] due to matrix interference .

The MSD {Q2458-04MSD} with File ID: FF016082.D recoveries met the acceptable requirements except for DRO[38%] due to matrix interference.

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 .

Samples TP-55, TP-66 and TP-60 were diluted due to bad matrices. The above samples original run is reported as screening data in miscellaneous data.

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

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

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2458
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 06/27/2025.
1 Water sample was received on 06/27/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all parameters.

The Duplicate (TP-68MSD) analysis met criteria for all parameters except for Copper due to matrix interference.

The Duplicate (TW-WTS-11MSD) analysis met criteria for all parameters except for Silver due to matrix interference.

The Matrix Spike (TP-68MS) analysis met criteria for all parameters except for Antimony, Copper, Potassium, Vanadium, Zinc due to matrix interference.

The Matrix Spike (TW-WTS-11MS) analysis met criteria for all parameters except for Silver due to matrix interference.

The Matrix Spike Duplicate (TP-68MSD) analysis met criteria for all parameters except for Antimony, Copper, Potassium, Vanadium, Zinc due to matrix interference.

The Matrix Spike Duplicate (TW-WTS-11MSD) analysis met criteria for all parameters except for Aluminum due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

The Serial Dilution (TW-WTS-11L) met criteria for all parameters except for Potassium due to unknown interference.

The Serial Dilution (WC-1L) met criteria for all parameters except for Mercury due to unknown interference.

E. Additional Comments:

The Post Digest Spike (TW-WTS-11A) analysis met criteria for all parameters except for Aluminum and Silver due to unknown chemical interferences of matrix with the addition of spike amount after digestion and before analysis , matrix has suppression effect during addition of spike

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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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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2458

	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: MOHAMMAD AHMED **Date:** 07/11/2025

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

LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/01/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/02/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/01/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/02/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/02/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/02/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260D			07/03/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**			**06/27/25**
			VOC-TCLVOA-10	8260-Low			07/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration		C	MDL	RDL	Units
Client ID:	**TP-76**									
Q2458-01	TP-76	SOIL	Methylene Chloride		14.4			4.30	12.3	ug/Kg
			Total Voc :			14.4				
			Total Concentration:			14.4				
Client ID:	**TP-55**									
Q2458-02	TP-55	SOIL	Methylene Chloride		12.9		J	5.50	15.7	ug/Kg
			Total Voc :			12.9				
			Total Concentration:			12.9				
Client ID:	**TP-66**									
Q2458-05	TP-66	SOIL	Methylcyclohexane		2.30		J	0.81	4.40	ug/Kg
			Total Voc :			2.30				
Q2458-05	TP-66	SOIL	unknown14.182	*	8.40		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Naphthalene, decahydro-, trans	*	12.3		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Hexane, 2,3-dimethyl-	*	12.1		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Hexane, 3-ethyl-	*	21.3		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Cyclopentanamine	*	19.2		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzene, 2-ethenyl-1,4-dimeth	*	12.6		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Octane, 2,6-dimethyl-	*	9.20		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Heptane, 2,5-dimethyl-	*	11.0		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	1H-Indene, 2,3-dihydro-1,1-din	*	9.70		J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	6,7-Dimethyl-3,5,8,8a-tetrahyd	*	14.0		J	0	0	ug/Kg
			Total Tics :			130				
			Total Concentration:			132				
Client ID:	**TP-60**									
Q2458-06	TP-60	SOIL	Acetone		7.40		J	3.70	19.5	ug/Kg
Q2458-06	TP-60	SOIL	Methylene Chloride		5.50		J	2.80	7.80	ug/Kg
			Total Voc :			12.9				
			Total Concentration:			12.9				
Client ID:	**TP-59**									
Q2458-09	TP-59	SOIL	Acetone		73.3			4.30	22.6	ug/Kg
Q2458-09	TP-59	SOIL	Carbon Disulfide		1.90		J	0.96	4.50	ug/Kg
Q2458-09	TP-59	SOIL	2-Butanone		14.1		J	5.90	22.6	ug/Kg
Q2458-09	TP-59	SOIL	Benzene		11.7			0.71	4.50	ug/Kg
			Total Voc :			101				
Q2458-09	TP-59	SOIL	Butane	*	7.60		J	0	0	ug/Kg
			Total Tics :			7.60				
			Total Concentration:			109				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022887.D	1	06/30/25 17:59	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.10	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.10	ug/Kg
75-01-4	Vinyl Chloride	0.97	U	0.97	6.10	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.10	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	6.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.10	ug/Kg
67-64-1	Acetone	5.80	U	5.80	30.7	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	6.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.90	U	0.90	6.10	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.10	ug/Kg
75-09-2	Methylene Chloride	14.4		4.30	12.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.98	U	0.98	6.10	ug/Kg
110-82-7	Cyclohexane	0.97	U	0.97	6.10	ug/Kg
78-93-3	2-Butanone	8.00	U	8.00	30.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.92	U	0.92	6.10	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.10	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.10	ug/Kg
71-43-2	Benzene	0.97	U	0.97	6.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.97	U	0.97	6.10	ug/Kg
79-01-6	Trichloroethene	0.99	U	0.99	6.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.10	ug/Kg
75-27-4	Bromodichloromethane	0.96	U	0.96	6.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	30.7	ug/Kg
108-88-3	Toluene	0.96	U	0.96	6.10	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022887.D	1	06/30/25 17:59	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.80	U	0.80	6.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.76	U	0.76	6.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.10	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	30.7	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.10	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.10	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.10	ug/Kg
100-41-4	Ethyl Benzene	0.82	U	0.82	6.10	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.3	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.10	ug/Kg
100-42-5	Styrene	0.87	U	0.87	6.10	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.10	ug/Kg
98-82-8	Isopropylbenzene	0.96	U	0.96	6.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.60	U	3.60	6.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.90	6.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.4		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.2		17 - 146	118%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.707			
540-36-3	1,4-Difluorobenzene	573000	8.615			
3114-55-4	Chlorobenzene-d5	580000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	257000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022887.D	1	06/30/25 17:59	VY063025

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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	3.49 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022888.D	1	06/30/25 18:22	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	7.80	ug/Kg
74-87-3	Chloromethane	1.80	U	1.80	7.80	ug/Kg
75-01-4	Vinyl Chloride	1.20	U	1.20	7.80	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	7.80	ug/Kg
75-00-3	Chloroethane	2.00	U	2.00	7.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.90	U	1.90	7.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70	U	1.70	7.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.60	U	1.60	7.80	ug/Kg
67-64-1	Acetone	7.40	U	7.40	39.2	ug/Kg
75-15-0	Carbon Disulfide	1.70	U	1.70	7.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.10	U	1.10	7.80	ug/Kg
79-20-9	Methyl Acetate	2.40	U	2.40	7.80	ug/Kg
75-09-2	Methylene Chloride	12.9	J	5.50	15.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.30	U	1.30	7.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	U	1.30	7.80	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	7.80	ug/Kg
78-93-3	2-Butanone	10.3	U	10.3	39.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	1.50	7.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	U	1.20	7.80	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	7.80	ug/Kg
67-66-3	Chloroform	1.30	U	1.30	7.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	1.50	7.80	ug/Kg
108-87-2	Methylcyclohexane	1.40	U	1.40	7.80	ug/Kg
71-43-2	Benzene	1.20	U	1.20	7.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.20	U	1.20	7.80	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	7.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.40	U	1.40	7.80	ug/Kg
75-27-4	Bromodichloromethane	1.20	U	1.20	7.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.60	U	5.60	39.2	ug/Kg
108-88-3	Toluene	1.20	U	1.20	7.80	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	3.49 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022888.D	1	06/30/25 18:22	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.00	U	1.00	7.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.97	U	0.97	7.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.40	U	1.40	7.80	ug/Kg
591-78-6	2-Hexanone	5.80	U	5.80	39.2	ug/Kg
124-48-1	Dibromochloromethane	1.40	U	1.40	7.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.40	U	1.40	7.80	ug/Kg
127-18-4	Tetrachloroethene	1.60	U	1.60	7.80	ug/Kg
108-90-7	Chlorobenzene	1.40	U	1.40	7.80	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	7.80	ug/Kg
179601-23-1	m/p-Xylenes	1.90	U	1.90	15.7	ug/Kg
95-47-6	o-Xylene	1.30	U	1.30	7.80	ug/Kg
100-42-5	Styrene	1.10	U	1.10	7.80	ug/Kg
75-25-2	Bromoform	1.30	U	1.30	7.80	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	7.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1.90	7.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.70	U	2.70	7.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.40	U	2.40	7.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	2.30	7.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.90	U	2.90	7.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.70	U	4.70	7.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	5.00	7.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	50.6		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		17 - 146	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303000	7.707			
540-36-3	1,4-Difluorobenzene	573000	8.616			
3114-55-4	Chlorobenzene-d5	562000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	240000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	3.49 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022888.D	1	06/30/25 18:22	VY063025

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
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022897.D	1	07/01/25 13:20	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	U	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.9	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.9	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022897.D	1	07/01/25 13:20	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.20	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.79	U	0.79	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		17 - 146	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	309000	7.707			
540-36-3	1,4-Difluorobenzene	580000	8.61			
3114-55-4	Chlorobenzene-d5	587000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022897.D	1	07/01/25 13:20	VY070125

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022912.D	1	07/02/25 15:09	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	6.80	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	6.80	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	6.80	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	6.80	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	6.80	ug/Kg
75-69-4	Trichlorofluoromethane	1.70	U	1.70	6.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	6.80	ug/Kg
67-64-1	Acetone	6.50	U	6.50	34.2	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	6.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	6.80	ug/Kg
79-20-9	Methyl Acetate	2.10	U	2.10	6.80	ug/Kg
75-09-2	Methylene Chloride	4.80	U	4.80	13.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	6.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	6.80	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	6.80	ug/Kg
78-93-3	2-Butanone	8.90	U	8.90	34.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	6.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	6.80	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	6.80	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	6.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	6.80	ug/Kg
108-87-2	Methylcyclohexane	1.20	U	1.20	6.80	ug/Kg
71-43-2	Benzene	1.10	U	1.10	6.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	6.80	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	6.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.20	U	1.20	6.80	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	6.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.90	U	4.90	34.2	ug/Kg
108-88-3	Toluene	1.10	U	1.10	6.80	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022912.D	1	07/02/25 15:09	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.89	U	0.89	6.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.85	6.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	6.80	ug/Kg
591-78-6	2-Hexanone	5.00	U	5.00	34.2	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	6.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	6.80	ug/Kg
127-18-4	Tetrachloroethene	1.40	U	1.40	6.80	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	6.80	ug/Kg
100-41-4	Ethyl Benzene	0.92	U	0.92	6.80	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	13.7	ug/Kg
95-47-6	o-Xylene	1.10	U	1.10	6.80	ug/Kg
100-42-5	Styrene	0.97	U	0.97	6.80	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	6.80	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	6.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	6.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	2.30	6.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	6.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.00	U	2.00	6.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.50	U	2.50	6.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.10	U	4.10	6.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.30	U	4.30	6.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	314000	7.707			
540-36-3	1,4-Difluorobenzene	603000	8.616			
3114-55-4	Chlorobenzene-d5	587000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022912.D	1	07/02/25 15:09	VY070225

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.3
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022899.D	1	07/01/25 15:06	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	0.94	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.89	U	0.89	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.2	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	8.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
108-87-2	Methylcyclohexane	2.30	J	0.81	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.81	U	0.81	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.2	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.3
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022899.D	1	07/01/25 15:06	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.2	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.78	U	0.78	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.93	U	0.93	4.40	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.90	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	4.40	ug/Kg
100-42-5	Styrene	0.63	U	0.63	4.40	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	71.3		63 - 155	143%	SPK: 50
1868-53-7	Dibromofluoromethane	57.5		70 - 134	115%	SPK: 50
2037-26-5	Toluene-d8	51.6		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.2		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	227000	7.707			
540-36-3	1,4-Difluorobenzene	479000	8.615			
3114-55-4	Chlorobenzene-d5	482000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	188000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.3
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022899.D	1	07/01/25 15:06	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000584-94-1	Hexane, 2,3-dimethyl-	12.1	J		9.69	ug/Kg
001003-03-8	Cyclopentanamine	19.2	J		9.87	ug/Kg
000619-99-8	Hexane, 3-ethyl-	21.3	J		9.92	ug/Kg
002216-30-0	Heptane, 2,5-dimethyl-	11.0	J		10.8	ug/Kg
000493-02-7	Naphthalene, decahydro-, trans-	12.3	J		13.7	ug/Kg
110028-10-9	6,7-Dimethyl-3,5,8,8a-tetrahydro-1	14.0	J		14.0	ug/Kg
	unknown14.182	8.40	J		14.2	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	12.6	J		14.6	ug/Kg
004912-92-9	1H-Indene, 2,3-dihydro-1,1-dimethy	9.70	J		15.0	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	9.20	J		15.1	ug/Kg

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.5
Sample Wt/Vol:	6.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022913.D	1	07/02/25 15:33	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.89	U	0.89	3.90	ug/Kg
74-87-3	Chloromethane	0.89	U	0.89	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	3.90	ug/Kg
75-00-3	Chloroethane	0.98	U	0.98	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.95	U	0.95	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	3.90	ug/Kg
67-64-1	Acetone	7.40	J	3.70	19.5	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	5.50	J	2.80	7.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.67	U	0.67	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.71	U	0.71	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.5	ug/Kg
108-88-3	Toluene	0.61	U	0.61	3.90	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.5
Sample Wt/Vol:	6.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022913.D	1	07/02/25 15:33	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.5	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	3.90	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.80	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.90	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	51.4		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		17 - 146	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	284000	7.707			
540-36-3	1,4-Difluorobenzene	538000	8.615			
3114-55-4	Chlorobenzene-d5	539000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	220000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.5
Sample Wt/Vol:	6.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022913.D	1	07/02/25 15:33	VY070225

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.1
Sample Wt/Vol:	7.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022914.D	1	07/02/25 15:56	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.83	U	0.83	3.70	ug/Kg
74-87-3	Chloromethane	0.83	U	0.83	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.58	U	0.58	3.70	ug/Kg
74-83-9	Bromomethane	0.78	U	0.78	3.70	ug/Kg
75-00-3	Chloroethane	0.92	U	0.92	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.89	U	0.89	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.78	U	0.78	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	3.70	ug/Kg
67-64-1	Acetone	3.50	U	3.50	18.3	ug/Kg
75-15-0	Carbon Disulfide	0.78	U	0.78	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.53	U	0.53	3.70	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.70	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	3.70	ug/Kg
110-82-7	Cyclohexane	0.58	U	0.58	3.70	ug/Kg
78-93-3	2-Butanone	4.80	U	4.80	18.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.55	U	0.55	3.70	ug/Kg
74-97-5	Bromochloromethane	0.84	U	0.84	3.70	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.67	U	0.67	3.70	ug/Kg
71-43-2	Benzene	0.58	U	0.58	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.58	U	0.58	3.70	ug/Kg
79-01-6	Trichloroethene	0.59	U	0.59	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.67	U	0.67	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.57	U	0.57	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.60	U	2.60	18.3	ug/Kg
108-88-3	Toluene	0.57	U	0.57	3.70	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.1
Sample Wt/Vol:	7.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022914.D	1	07/02/25 15:56	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.48	U	0.48	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.45	U	0.45	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.67	U	0.67	3.70	ug/Kg
591-78-6	2-Hexanone	2.70	U	2.70	18.3	ug/Kg
124-48-1	Dibromochloromethane	0.64	U	0.64	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	3.70	ug/Kg
108-90-7	Chlorobenzene	0.67	U	0.67	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.49	U	0.49	3.70	ug/Kg
179601-23-1	m/p-Xylenes	0.91	U	0.91	7.30	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	3.70	ug/Kg
100-42-5	Styrene	0.52	U	0.52	3.70	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.57	U	0.57	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.89	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.30	U	2.30	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.2		63 - 155	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 - 134	106%	SPK: 50
2037-26-5	Toluene-d8	50.7		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.2		17 - 146	116%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	277000	7.707			
540-36-3	1,4-Difluorobenzene	536000	8.616			
3114-55-4	Chlorobenzene-d5	553000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	247000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.1
Sample Wt/Vol:	7.5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022914.D	1	07/02/25 15:56	VY070225

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.4
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022915.D	1	07/02/25 16:20	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.90	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.90	ug/Kg
75-01-4	Vinyl Chloride	0.93	U	0.93	5.90	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	5.90	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	5.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.40	U	1.40	5.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	5.90	ug/Kg
67-64-1	Acetone	5.60	U	5.60	29.5	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.86	U	0.86	5.90	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.90	ug/Kg
75-09-2	Methylene Chloride	4.20	U	4.20	11.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	5.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.94	U	0.94	5.90	ug/Kg
110-82-7	Cyclohexane	0.93	U	0.93	5.90	ug/Kg
78-93-3	2-Butanone	7.70	U	7.70	29.5	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.88	U	0.88	5.90	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	5.90	ug/Kg
67-66-3	Chloroform	0.99	U	0.99	5.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	5.90	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	5.90	ug/Kg
71-43-2	Benzene	0.93	U	0.93	5.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.93	U	0.93	5.90	ug/Kg
79-01-6	Trichloroethene	0.95	U	0.95	5.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	5.90	ug/Kg
75-27-4	Bromodichloromethane	0.92	U	0.92	5.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	29.5	ug/Kg
108-88-3	Toluene	0.92	U	0.92	5.90	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.4
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022915.D	1	07/02/25 16:20	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.77	U	0.77	5.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.73	U	0.73	5.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	5.90	ug/Kg
591-78-6	2-Hexanone	4.30	U	4.30	29.5	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	5.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	5.90	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.90	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	5.90	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	5.90	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	11.8	ug/Kg
95-47-6	o-Xylene	0.97	U	0.97	5.90	ug/Kg
100-42-5	Styrene	0.84	U	0.84	5.90	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	5.90	ug/Kg
98-82-8	Isopropylbenzene	0.92	U	0.92	5.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	5.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	5.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.80	5.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	5.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	2.20	5.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.50	U	3.50	5.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.70	U	3.70	5.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	278000	7.707			
540-36-3	1,4-Difluorobenzene	537000	8.615			
3114-55-4	Chlorobenzene-d5	515000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	196000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.4
Sample Wt/Vol:	4.91 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022915.D	1	07/02/25 16:20	VY070225

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.6
Sample Wt/Vol:	7.23 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022937.D	1	07/03/25 13:03	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.50	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.50	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.50	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.90	U	0.90	4.50	ug/Kg
67-64-1	Acetone	73.3		4.30	22.6	ug/Kg
75-15-0	Carbon Disulfide	1.90	J	0.96	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.72	U	0.72	4.50	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	4.50	ug/Kg
78-93-3	2-Butanone	14.1	J	5.90	22.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.88	U	0.88	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.76	U	0.76	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.84	U	0.84	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.50	ug/Kg
71-43-2	Benzene	11.7		0.71	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	4.50	ug/Kg
79-01-6	Trichloroethene	0.73	U	0.73	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.82	U	0.82	4.50	ug/Kg
75-27-4	Bromodichloromethane	0.70	U	0.70	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.6	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.6
Sample Wt/Vol:	7.23 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022937.D	1	07/03/25 13:03	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.56	U	0.56	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.83	U	0.83	4.50	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.6	ug/Kg
124-48-1	Dibromochloromethane	0.79	U	0.79	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	4.50	ug/Kg
127-18-4	Tetrachloroethene	0.95	U	0.95	4.50	ug/Kg
108-90-7	Chlorobenzene	0.82	U	0.82	4.50	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.50	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.00	ug/Kg
95-47-6	o-Xylene	0.74	U	0.74	4.50	ug/Kg
100-42-5	Styrene	0.64	U	0.64	4.50	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.50	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		63 - 155	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.6		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		17 - 146	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	269000	7.707			
540-36-3	1,4-Difluorobenzene	500000	8.616			
3114-55-4	Chlorobenzene-d5	495000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	214000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.6
Sample Wt/Vol:	7.23 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022937.D	1	07/03/25 13:03	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000106-97-8	Butane	7.60	J		2.20	ug/Kg

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046872.D	1	07/03/25 09:35	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	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
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046872.D	1	07/03/25 09:35	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	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
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	397000	5.556			
540-36-3	1,4-Difluorobenzene	689000	6.763			
3114-55-4	Chlorobenzene-d5	629000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	318000	12.018			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046872.D	1	07/03/25 09:35	VX070325

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

Alliance TECHNICAL GROUP
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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2458-01	TP-76	1,2-Dichloroethane-d4	50	51.4	103		63	155
		Dibromofluoromethane	50	50.6	101		70	134
		Toluene-d8	50	51.4	103		74	123
		4-Bromofluorobenzene	50	59.2	118		17	146
Q2458-02	TP-55	1,2-Dichloroethane-d4	50	51.8	104		63	155
		Dibromofluoromethane	50	51.4	103		70	134
		Toluene-d8	50	50.6	101		74	123
		4-Bromofluorobenzene	50	56.5	113		17	146
Q2458-03	TP-68	1,2-Dichloroethane-d4	50	51.1	102		63	155
		Dibromofluoromethane	50	52.2	104		70	134
		Toluene-d8	50	51.1	102		74	123
		4-Bromofluorobenzene	50	57.0	114		17	146
Q2458-04	TP-67	1,2-Dichloroethane-d4	50	50.1	100		63	155
		Dibromofluoromethane	50	51.2	102		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	54.1	108		17	146
Q2458-05	TP-66	1,2-Dichloroethane-d4	50	71.3	143		63	155
		Dibromofluoromethane	50	57.5	115		70	134
		Toluene-d8	50	51.6	103		74	123
		4-Bromofluorobenzene	50	55.2	110		17	146
Q2458-06	TP-60	1,2-Dichloroethane-d4	50	56.8	114		63	155
		Dibromofluoromethane	50	53.5	107		70	134
		Toluene-d8	50	51.4	103		74	123
		4-Bromofluorobenzene	50	56.4	113		17	146
Q2458-07	TP-62	1,2-Dichloroethane-d4	50	58.3	116		63	155
		Dibromofluoromethane	50	52.8	106		70	134
		Toluene-d8	50	50.7	101		74	123
		4-Bromofluorobenzene	50	58.2	116		17	146
Q2458-08	TP-63	1,2-Dichloroethane-d4	50	53.7	107		63	155
		Dibromofluoromethane	50	51.0	102		70	134
		Toluene-d8	50	50.0	100		74	123
		4-Bromofluorobenzene	50	51.1	102		17	146
Q2458-09	TP-59	1,2-Dichloroethane-d4	50	53.7	107		63	155
		Dibromofluoromethane	50	51.9	104		70	134
		Toluene-d8	50	51.6	103		74	123
		4-Bromofluorobenzene	50	55.8	112		17	146
VY0630SBL01	VY0630SBL01	1,2-Dichloroethane-d4	50	44.2	88		63	155
		Dibromofluoromethane	50	50.1	100		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
VY0630SBS01	VY0630SBS01	1,2-Dichloroethane-d4	50	46.6	93		63	155
		Dibromofluoromethane	50	48.0	96		70	134
		Toluene-d8	50	48.5	97		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146
VY0630SBSD01	VY0630SBSD01	1,2-Dichloroethane-d4	50	48.7	97		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	47.9	96		17	146
VY0701SBL01	VY0701SBL01	1,2-Dichloroethane-d4	50	52.2	104		63	155
		Dibromofluoromethane	50	50.5	101		70	134

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
VY0701SBL01	VY0701SBL01	Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	55.6	111		17	146
VY0701SBS01	VY0701SBS01	1,2-Dichloroethane-d4	50	49.2	98		63	155
		Dibromofluoromethane	50	48.6	97		70	134
		Toluene-d8	50	49.2	98		74	123
		4-Bromofluorobenzene	50	47.4	95		17	146
VY0702SBL01	VY0702SBL01	1,2-Dichloroethane-d4	50	49.3	99		63	155
		Dibromofluoromethane	50	50.9	102		70	134
		Toluene-d8	50	51.3	103		74	123
		4-Bromofluorobenzene	50	55.3	111		17	146
VY0702SBS01	VY0702SBS01	1,2-Dichloroethane-d4	50	49.8	100		63	155
		Dibromofluoromethane	50	52.0	104		70	134
		Toluene-d8	50	51.9	104		74	123
		4-Bromofluorobenzene	50	48.9	98		17	146
VY0703SBL01	VY0703SBL01	1,2-Dichloroethane-d4	50	52.7	105		63	155
		Dibromofluoromethane	50	52.7	105		70	134
		Toluene-d8	50	52.1	104		74	123
		4-Bromofluorobenzene	50	55.3	111		17	146
VY0703SBS01	VY0703SBS01	1,2-Dichloroethane-d4	50	48.4	97		63	155
		Dibromofluoromethane	50	50.6	101		70	134
		Toluene-d8	50	51.1	102		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2458-10	FB-06272025	1,2-Dichloroethane-d4	50	50.5	101		74	125
		Dibromofluoromethane	50	47.7	95		75	124
		Toluene-d8	50	49.8	100		86	113
		4-Bromofluorobenzene	50	50.0	100		77	121
VX0703WBL01	VX0703WBL01	1,2-Dichloroethane-d4	50	50.3	101		74	125
		Dibromofluoromethane	50	48.6	97		75	124
		Toluene-d8	50	49.6	99		86	113
		4-Bromofluorobenzene	50	50.6	101		77	121
VX0703WBS01	VX0703WBS01	1,2-Dichloroethane-d4	50	49.9	100		74	125
		Dibromofluoromethane	50	49.1	98		75	124
		Toluene-d8	50	49.6	99		86	113
		4-Bromofluorobenzene	50	50.7	101		77	121
VX0703WBSD0	VX0703WBSD01	1,2-Dichloroethane-d4	50	51.3	103		74	125
		Dibromofluoromethane	50	49.8	100		75	124
		Toluene-d8	50	49.3	99		86	113
		4-Bromofluorobenzene	50	51.1	102		77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260-Low

Client: CDM Smith **Datafile :** VX046873.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0703WBS01	Dichlorodifluoromethane	20	18.7	ug/L	94			69	116	
	Chloromethane	20	19.0	ug/L	95			65	116	
	Vinyl chloride	20	18.7	ug/L	94			65	117	
	Bromomethane	20	20.5	ug/L	103			58	125	
	Chloroethane	20	18.2	ug/L	91			56	128	
	Trichlorofluoromethane	20	18.8	ug/L	94			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.8	ug/L	94			80	112	
	1,1-Dichloroethene	20	18.2	ug/L	91			74	110	
	Acetone	100	86.7	ug/L	87			60	125	
	Carbon disulfide	20	18.0	ug/L	90			64	112	
	Methyl tert-butyl Ether	20	18.9	ug/L	95			78	114	
	Methyl Acetate	20	19.3	ug/L	97			67	125	
	Methylene Chloride	20	18.5	ug/L	93			72	114	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	108	
	1,1-Dichloroethane	20	19.0	ug/L	95			78	112	
	Cyclohexane	20	19.2	ug/L	96			75	110	
	2-Butanone	100	93.1	ug/L	93			65	122	
	Carbon Tetrachloride	20	18.3	ug/L	92			77	113	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			77	110	
	Bromochloromethane	20	16.0	ug/L	80			70	124	
	Chloroform	20	19.1	ug/L	96			79	113	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			80	108	
	Methylcyclohexane	20	18.6	ug/L	93			72	115	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloroethane	20	18.6	ug/L	93			80	115	
	Trichloroethene	20	18.4	ug/L	92			77	113	
	1,2-Dichloropropane	20	18.6	ug/L	93			83	111	
	Bromodichloromethane	20	18.8	ug/L	94			83	110	
	4-Methyl-2-Pentanone	100	95.2	ug/L	95			74	118	
	Toluene	20	19.1	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	18.4	ug/L	92			79	110	
	cis-1,3-Dichloropropene	20	18.5	ug/L	93			82	110	
	1,1,2-Trichloroethane	20	19.1	ug/L	96			83	112	
	2-Hexanone	100	92.1	ug/L	92			73	117	
	Dibromochloromethane	20	18.6	ug/L	93			82	110	
	1,2-Dibromoethane	20	18.6	ug/L	93			81	110	
	Tetrachloroethene	20	18.5	ug/L	93			67	123	
	Chlorobenzene	20	18.6	ug/L	93			82	109	
	Ethyl Benzene	20	18.9	ug/L	95			83	109	
	m/p-Xylenes	40	38.0	ug/L	95			82	110	
	o-Xylene	20	18.7	ug/L	94			83	109	
	Styrene	20	19.3	ug/L	97			80	111	
	Bromoform	20	18.3	ug/L	92			79	109	
	Isopropylbenzene	20	18.6	ug/L	93			83	112	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,3-Dichlorobenzene	20	18.4	ug/L	92			82	108	
	1,4-Dichlorobenzene	20	18.0	ug/L	90			82	107	
	1,2-Dichlorobenzene	20	18.5	ug/L	93			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2458**	**Analytical Method:**	**SW8260-Low**
Client:	**CDM Smith**	**Datafile :**	VX046873.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0703WBS01	1,2-Dibromo-3-Chloropropane	20	17.6	ug/L	88			68	112	
	1,2,4-Trichlorobenzene	20	17.8	ug/L	89			75	113	
	1,2,3-Trichlorobenzene	20	17.9	ug/L	90			76	114	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260-Low

Client: CDM Smith **Datafile :** VX046874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0703WBSD01	Dichlorodifluoromethane	20	19.3	ug/L	97	3		69	116	19
	Chloromethane	20	19.4	ug/L	97	2		65	116	21
	Vinyl chloride	20	19.1	ug/L	96	2		65	117	19
	Bromomethane	20	20.5	ug/L	103	0		58	125	20
	Chloroethane	20	18.8	ug/L	94	3		56	128	20
	Trichlorofluoromethane	20	19.5	ug/L	98	4		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	4		80	112	15
	1,1-Dichloroethene	20	19.2	ug/L	96	5		74	110	20
	Acetone	100	91.0	ug/L	91	4		60	125	20
	Carbon disulfide	20	18.5	ug/L	93	3		64	112	20
	Methyl tert-butyl Ether	20	20.5	ug/L	103	8		78	114	20
	Methyl Acetate	20	20.5	ug/L	103	6		67	125	20
	Methylene Chloride	20	19.9	ug/L	100	7		72	114	20
	trans-1,2-Dichloroethene	20	19.9	ug/L	100	4		75	108	16
	1,1-Dichloroethane	20	19.6	ug/L	98	3		78	112	20
	Cyclohexane	20	20.1	ug/L	101	5		75	110	20
	2-Butanone	100	98.7	ug/L	99	6		65	122	26
	Carbon Tetrachloride	20	19.5	ug/L	98	6		77	113	15
	cis-1,2-Dichloroethene	20	19.9	ug/L	100	5		77	110	20
	Bromochloromethane	20	17.5	ug/L	88	10		70	124	20
	Chloroform	20	20.1	ug/L	101	5		79	113	20
	1,1,1-Trichloroethane	20	19.4	ug/L	97	3		80	108	20
	Methylcyclohexane	20	19.3	ug/L	97	4		72	115	20
	Benzene	20	19.8	ug/L	99	4		82	109	15
	1,2-Dichloroethane	20	20.3	ug/L	102	9		80	115	20
	Trichloroethene	20	18.9	ug/L	95	3		77	113	15
	1,2-Dichloropropane	20	19.9	ug/L	100	7		83	111	16
	Bromodichloromethane	20	20.0	ug/L	100	6		83	110	16
	4-Methyl-2-Pentanone	100	100	ug/L	100	5		74	118	25
	Toluene	20	20.1	ug/L	101	5		82	110	16
	t-1,3-Dichloropropene	20	19.8	ug/L	99	7		79	110	20
	cis-1,3-Dichloropropene	20	20.3	ug/L	102	9		82	110	16
	1,1,2-Trichloroethane	20	20.7	ug/L	104	8		83	112	20
	2-Hexanone	100	100	ug/L	100	8		73	117	25
	Dibromochloromethane	20	20.0	ug/L	100	7		82	110	20
	1,2-Dibromoethane	20	20.1	ug/L	101	8		81	110	20
	Tetrachloroethene	20	19.3	ug/L	97	4		67	123	15
	Chlorobenzene	20	19.4	ug/L	97	4		82	109	15
	Ethyl Benzene	20	19.7	ug/L	99	4		83	109	16
	m/p-Xylenes	40	39.9	ug/L	100	5		82	110	15
	o-Xylene	20	19.7	ug/L	99	5		83	109	20
	Styrene	20	20.1	ug/L	101	4		80	111	17
	Bromoform	20	19.3	ug/L	97	5		79	109	20
	Isopropylbenzene	20	19.2	ug/L	96	3		83	112	29
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97	6		76	118	20
	1,3-Dichlorobenzene	20	19.4	ug/L	97	5		82	108	20
	1,4-Dichlorobenzene	20	18.8	ug/L	94	4		82	107	15
	1,2-Dichlorobenzene	20	19.5	ug/L	98	5		82	109	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260-Low

Client: CDM Smith **Datafile :** VX046874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0703WBSD01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/L	95	8		68	112	20
	1,2,4-Trichlorobenzene	20	18.3	ug/L	92	3		75	113	29
	1,2,3-Trichlorobenzene	20	19.5	ug/L	98	9		76	114	29

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0630SBS01	Dichlorodifluoromethane	20	20.1	ug/Kg	101			64	136	
	Chloromethane	20	21.7	ug/Kg	109			52	151	
	Vinyl chloride	20	19.4	ug/Kg	97			56	148	
	Bromomethane	20	20.1	ug/Kg	101			58	141	
	Chloroethane	20	19.2	ug/Kg	96			69	130	
	Trichlorofluoromethane	20	18.7	ug/Kg	94			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.6	ug/Kg	103			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.3	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	18.8	ug/Kg	94			77	129	
	Methyl Acetate	20	18.5	ug/Kg	93			69	149	
	Methylene Chloride	20	21.7	ug/Kg	109			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.4	ug/Kg	102			82	123	
	Cyclohexane	20	20.8	ug/Kg	104			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	20	20.0	ug/Kg	100			82	123	
	Bromochloromethane	20	19.6	ug/Kg	98			80	127	
	Chloroform	20	19.9	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101			80	126	
	Methylcyclohexane	20	21.1	ug/Kg	106			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	19.4	ug/Kg	97			81	126	
	Trichloroethene	20	19.6	ug/Kg	98			83	122	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			83	122	
	Bromodichloromethane	20	19.4	ug/Kg	97			82	123	
	4-Methyl-2-Pentanone	100	90.8	ug/Kg	91			70	135	
	Toluene	20	19.7	ug/Kg	99			83	122	
	t-1,3-Dichloropropene	20	18.8	ug/Kg	94			78	124	
	cis-1,3-Dichloropropene	20	19.8	ug/Kg	99			81	122	
	1,1,2-Trichloroethane	20	19.1	ug/Kg	96			82	125	
	2-Hexanone	100	98.0	ug/Kg	98			66	138	
	Dibromochloromethane	20	18.7	ug/Kg	94			79	125	
	1,2-Dibromoethane	20	18.6	ug/Kg	93			80	125	
	Tetrachloroethene	20	18.3	ug/Kg	92			83	125	
	Chlorobenzene	20	19.9	ug/Kg	100			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	40.2	ug/Kg	101			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Styrene	20	19.4	ug/Kg	97			82	124	
	Bromoform	20	18.3	ug/Kg	92			75	127	
	Isopropylbenzene	20	21.1	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/Kg	103			77	127	
	1,3-Dichlorobenzene	20	20.3	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022874.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0630SBS01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/Kg	90			66	134	
	1,2,4-Trichlorobenzene	20	19.6	ug/Kg	98			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022875.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0630SBSD01	Dichlorodifluoromethane	20	21.1	ug/Kg	106	5		64	136	20
	Chloromethane	20	19.5	ug/Kg	98	11		52	151	20
	Vinyl chloride	20	19.2	ug/Kg	96	1		56	148	20
	Bromomethane	20	19.5	ug/Kg	98	3		58	141	20
	Chloroethane	20	19.5	ug/Kg	98	2		69	130	20
	Trichlorofluoromethane	20	19.7	ug/Kg	99	5		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/Kg	106	2		81	123	20
	1,1-Dichloroethene	20	21.0	ug/Kg	105	2		79	121	20
	Acetone	100	130	ug/Kg	130	0		40	171	20
	Carbon disulfide	20	20.8	ug/Kg	104	2		59	130	20
	Methyl tert-butyl Ether	20	20.2	ug/Kg	101	7		77	129	20
	Methyl Acetate	20	17.4	ug/Kg	87	7		69	149	20
	Methylene Chloride	20	22.9	ug/Kg	115	5		72	131	20
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	1		80	123	20
	1,1-Dichloroethane	20	21.0	ug/Kg	105	3		82	123	20
	Cyclohexane	20	21.5	ug/Kg	108	4		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	20.8	ug/Kg	104	4		76	129	20
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102	2		82	123	20
	Bromochloromethane	20	20.4	ug/Kg	102	4		80	127	20
	Chloroform	20	20.8	ug/Kg	104	4		82	125	20
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106	5		80	126	20
	Methylcyclohexane	20	21.3	ug/Kg	106	0		77	123	20
	Benzene	20	20.8	ug/Kg	104	3		84	121	20
	1,2-Dichloroethane	20	20.6	ug/Kg	103	6		81	126	20
	Trichloroethene	20	20.4	ug/Kg	102	4		83	122	20
	1,2-Dichloropropane	20	20.7	ug/Kg	104	2		83	122	20
	Bromodichloromethane	20	20.6	ug/Kg	103	6		82	123	20
	4-Methyl-2-Pentanone	100	98.1	ug/Kg	98	7		70	135	20
	Toluene	20	20.5	ug/Kg	103	4		83	122	20
	t-1,3-Dichloropropene	20	20.3	ug/Kg	102	8		78	124	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	4		81	122	20
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102	6		82	125	20
	2-Hexanone	100	100	ug/Kg	100	2		66	138	20
	Dibromochloromethane	20	19.8	ug/Kg	99	5		79	125	20
	1,2-Dibromoethane	20	19.4	ug/Kg	97	4		80	125	20
	Tetrachloroethene	20	19.1	ug/Kg	96	4		83	125	20
	Chlorobenzene	20	20.5	ug/Kg	103	3		84	122	20
	Ethyl Benzene	20	20.6	ug/Kg	103	2		82	124	20
	m/p-Xylenes	40	40.9	ug/Kg	102	1		83	124	20
	o-Xylene	20	20.3	ug/Kg	102	3		83	123	20
	Styrene	20	19.9	ug/Kg	100	3		82	124	20
	Bromoform	20	19.2	ug/Kg	96	4		75	127	20
	Isopropylbenzene	20	21.4	ug/Kg	107	1		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.9	ug/Kg	110	7		77	127	20
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	1		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	2		84	121	20
	1,2-Dichlorobenzene	20	20.6	ug/Kg	103	5		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022875.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0630SBSD01	1,2-Dibromo-3-Chloropropane	20	20.2	ug/Kg	101	12		66	134	20
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	6		78	127	20
	1,2,3-Trichlorobenzene	20	20.3	ug/Kg	102	7		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022893.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0701SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			64	136	
	Chloromethane	20	20.3	ug/Kg	102			52	151	
	Vinyl chloride	20	19.6	ug/Kg	98			56	148	
	Bromomethane	20	21.8	ug/Kg	109			58	141	
	Chloroethane	20	19.9	ug/Kg	100			69	130	
	Trichlorofluoromethane	20	19.7	ug/Kg	99			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.3	ug/Kg	102			59	130	
	Methyl tert-butyl Ether	20	20.6	ug/Kg	103			77	129	
	Methyl Acetate	20	20.4	ug/Kg	102			69	149	
	Methylene Chloride	20	22.2	ug/Kg	111			72	131	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			82	123	
	Cyclohexane	20	21.0	ug/Kg	105			76	122	
	2-Butanone	100	120	ug/Kg	120			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102			82	123	
	Bromochloromethane	20	20.9	ug/Kg	104			80	127	
	Chloroform	20	20.3	ug/Kg	102			82	125	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			80	126	
	Methylcyclohexane	20	20.3	ug/Kg	102			77	123	
	Benzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	20.7	ug/Kg	104			83	122	
	Bromodichloromethane	20	20.2	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	20.1	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	19.9	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			80	125	
	Tetrachloroethene	20	20.7	ug/Kg	104			83	125	
	Chlorobenzene	20	20.2	ug/Kg	101			84	122	
	Ethyl Benzene	20	20.1	ug/Kg	101			82	124	
	m/p-Xylenes	40	39.9	ug/Kg	100			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	19.2	ug/Kg	96			75	127	
	Isopropylbenzene	20	20.9	ug/Kg	104			82	124	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			77	127	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022893.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0701SBS01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/Kg	104			66	134	
	1,2,4-Trichlorobenzene	20	19.2	ug/Kg	96			78	127	
	1,2,3-Trichlorobenzene	20	18.6	ug/Kg	93			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022905.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0702SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	22.7	ug/Kg	114			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	21.9	ug/Kg	110			58	141	
	Chloroethane	20	21.3	ug/Kg	106			69	130	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.7	ug/Kg	104			79	121	
	Acetone	100	110	ug/Kg	110			40	171	
	Carbon disulfide	20	20.6	ug/Kg	103			59	130	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	17.0	ug/Kg	85			69	149	
	Methylene Chloride	20	22.0	ug/Kg	110			72	131	
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	21.0	ug/Kg	105			82	123	
	Cyclohexane	20	21.2	ug/Kg	106			76	122	
	2-Butanone	100	97.2	ug/Kg	97			69	131	
	Carbon Tetrachloride	20	20.5	ug/Kg	103			76	129	
	cis-1,2-Dichloroethene	20	20.2	ug/Kg	101			82	123	
	Bromochloromethane	20	20.2	ug/Kg	101			80	127	
	Chloroform	20	20.7	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104			80	126	
	Methylcyclohexane	20	20.6	ug/Kg	103			77	123	
	Benzene	20	20.6	ug/Kg	103			84	121	
	1,2-Dichloroethane	20	20.0	ug/Kg	100			81	126	
	Trichloroethene	20	19.9	ug/Kg	100			83	122	
	1,2-Dichloropropane	20	20.8	ug/Kg	104			83	122	
	Bromodichloromethane	20	19.8	ug/Kg	99			82	123	
	4-Methyl-2-Pentanone	100	89.3	ug/Kg	89			70	135	
	Toluene	20	20.1	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	19.2	ug/Kg	96			82	125	
	2-Hexanone	100	90.1	ug/Kg	90			66	138	
	Dibromochloromethane	20	18.8	ug/Kg	94			79	125	
	1,2-Dibromoethane	20	18.3	ug/Kg	92			80	125	
	Tetrachloroethene	20	19.7	ug/Kg	99			83	125	
	Chlorobenzene	20	20.4	ug/Kg	102			84	122	
	Ethyl Benzene	20	20.6	ug/Kg	103			82	124	
	m/p-Xylenes	40	40.6	ug/Kg	102			83	124	
	o-Xylene	20	20.0	ug/Kg	100			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	18.4	ug/Kg	92			75	127	
	Isopropylbenzene	20	21.8	ug/Kg	109			82	124	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	20.4	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2458**	**Analytical Method:**	**SW8260D**
Client:	**CDM Smith**	**Datafile :**	VY022905.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0702SBS01	1,2-Dibromo-3-Chloropropane	20	18.3	ug/Kg	92			66	134	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			78	127	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022931.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0703SBS01	Dichlorodifluoromethane	20	21.3	ug/Kg	106			64	136	
	Chloromethane	20	20.1	ug/Kg	101			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	19.6	ug/Kg	98			58	141	
	Chloroethane	20	20.3	ug/Kg	102			69	130	
	Trichlorofluoromethane	20	19.3	ug/Kg	97			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			81	123	
	1,1-Dichloroethene	20	21.2	ug/Kg	106			79	121	
	Acetone	100	140	ug/Kg	140			40	171	
	Carbon disulfide	20	21.1	ug/Kg	106			59	130	
	Methyl tert-butyl Ether	20	18.3	ug/Kg	92			77	129	
	Methyl Acetate	20	16.2	ug/Kg	81			69	149	
	Methylene Chloride	20	24.0	ug/Kg	120			72	131	
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104			80	123	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			82	123	
	Cyclohexane	20	21.2	ug/Kg	106			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	21.1	ug/Kg	106			76	129	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			82	123	
	Bromochloromethane	20	20.3	ug/Kg	102			80	127	
	Chloroform	20	21.0	ug/Kg	105			82	125	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Methylcyclohexane	20	20.6	ug/Kg	103			77	123	
	Benzene	20	21.4	ug/Kg	107			84	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			81	126	
	Trichloroethene	20	21.2	ug/Kg	106			83	122	
	1,2-Dichloropropane	20	21.4	ug/Kg	107			83	122	
	Bromodichloromethane	20	20.4	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	88.7	ug/Kg	89			70	135	
	Toluene	20	20.6	ug/Kg	103			83	122	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			78	124	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			81	122	
	1,1,2-Trichloroethane	20	19.4	ug/Kg	97			82	125	
	2-Hexanone	100	97.3	ug/Kg	97			66	138	
	Dibromochloromethane	20	19.1	ug/Kg	96			79	125	
	1,2-Dibromoethane	20	18.2	ug/Kg	91			80	125	
	Tetrachloroethene	20	22.3	ug/Kg	112			83	125	
	Chlorobenzene	20	20.9	ug/Kg	104			84	122	
	Ethyl Benzene	20	21.4	ug/Kg	107			82	124	
	m/p-Xylenes	40	42.4	ug/Kg	106			83	124	
	o-Xylene	20	20.1	ug/Kg	101			83	123	
	Styrene	20	20.2	ug/Kg	101			82	124	
	Bromoform	20	17.7	ug/Kg	89			75	127	
	Isopropylbenzene	20	21.8	ug/Kg	109			82	124	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			77	127	
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VY022931.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0703SBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/Kg	89			66	134	
	1,2,4-Trichlorobenzene	20	17.7	ug/Kg	89			78	127	
	1,2,3-Trichlorobenzene	20	16.9	ug/Kg	85			70	137	

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0703WBL01

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: VX046871.D | Lab Sample ID: VX0703WBL01

Date Analyzed: 07/03/2025 | Time Analyzed: 09:09

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
FB-06272025	Q2458-10	VX046872.D	07/03/2025
VX0703WBS01	VX0703WBS01	VX046873.D	07/03/2025
VX0703WBSD01	VX0703WBSD01	VX046874.D	07/03/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0630SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022873.D Lab Sample ID: VY0630SBL01

Date Analyzed: 06/30/2025 Time Analyzed: 11:39

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0630SBS01	VY0630SBS01	VY022874.D	06/30/2025
VY0630SBSD01	VY0630SBSD01	VY022875.D	06/30/2025
TP-76	Q2458-01	VY022887.D	06/30/2025
TP-55	Q2458-02	VY022888.D	06/30/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0701SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022892.D Lab Sample ID: VY0701SBL01

Date Analyzed: 07/01/2025 Time Analyzed: 11:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0701SBS01	VY0701SBS01	VY022893.D	07/01/2025
TP-68	Q2458-03	VY022897.D	07/01/2025
TP-66	Q2458-05	VY022899.D	07/01/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0702SBL01

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: VY022904.D | Lab Sample ID: VY0702SBL01

Date Analyzed: 07/02/2025 | Time Analyzed: 11:42

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0702SBS01	VY0702SBS01	VY022905.D	07/02/2025
TP-67	Q2458-04	VY022912.D	07/02/2025
TP-60	Q2458-06	VY022913.D	07/02/2025
TP-62	Q2458-07	VY022914.D	07/02/2025
TP-63	Q2458-08	VY022915.D	07/02/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0703SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022930.D Lab Sample ID: VY0703SBL01

Date Analyzed: 07/03/2025 Time Analyzed: 09:57

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0703SBS01	VY0703SBS01	VY022931.D	07/03/2025
TP-59	Q2458-09	VY022937.D	07/03/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2458
Lab File ID: VX046859.D
BFB Injection Date: 07/02/2025
Instrument ID: MSVOA_X
BFB Injection Time: 11:12
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	18.2
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.3 (97.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX046860.D	07/02/2025	12:11
VSTDICC005	VSTDICC005	VX046861.D	07/02/2025	12:37
VSTDICC020	VSTDICC020	VX046862.D	07/02/2025	13:18
VSTDICCC050	VSTDICCC050	VX046863.D	07/02/2025	13:39
VSTDICC100	VSTDICC100	VX046864.D	07/02/2025	14:10
VSTDICC150	VSTDICC150	VX046865.D	07/02/2025	14:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: VX046868.D | BFB Injection Date: 07/03/2025

Instrument ID: MSVOA_X | BFB Injection Time: 07:52

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	18.4
75	30.0 - 60.0% of mass 95	49.9
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) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.7 (7.6) 1
176	95.0 - 101.0% of mass 174	75.5 (99.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046869.D	07/03/2025	08:19
VX0703WBL01	VX0703WBL01	VX046871.D	07/03/2025	09:09
FB-06272025	Q2458-10	VX046872.D	07/03/2025	09:35
VX0703WBS01	VX0703WBS01	VX046873.D	07/03/2025	09:56
VX0703WBSD01	VX0703WBSD01	VX046874.D	07/03/2025	10:23

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: VY022775.D | BFB Injection Date: 06/23/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 10:17

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.2 (95.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022776.D	06/23/2025	13:38
VSTDICC010	VSTDICC010	VY022777.D	06/23/2025	14:00
VSTDICC020	VSTDICC020	VY022778.D	06/23/2025	14:23
VSTDICCC050	VSTDICCC050	VY022779.D	06/23/2025	14:46
VSTDICC100	VSTDICC100	VY022780.D	06/23/2025	15:08
VSTDICC150	VSTDICC150	VY022781.D	06/23/2025	15:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: VY022871.D | BFB Injection Date: 06/30/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:42

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	53.9
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	0.9 (1) 1
174	50.0 - 100.0% of mass 95	84.6
175	5.0 - 9.0% of mass 174	6.3 (7.4) 1
176	95.0 - 101.0% of mass 174	80.8 (95.5) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022872.D	06/30/2025	11:03
VY0630SBL01	VY0630SBL01	VY022873.D	06/30/2025	11:39
VY0630SBS01	VY0630SBS01	VY022874.D	06/30/2025	12:09
VY0630SBSD01	VY0630SBSD01	VY022875.D	06/30/2025	12:32
TP-76	Q2458-01	VY022887.D	06/30/2025	17:59
TP-55	Q2458-02	VY022888.D	06/30/2025	18:22

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2458
Lab File ID: VY022890.D
BFB Injection Date: 07/01/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:47
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	54.7
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 (1.3) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	80.2 (96.3) 1
177	5.0 - 9.0% of mass 176	5.5 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022891.D	07/01/2025	10:32
VY0701SBL01	VY0701SBL01	VY022892.D	07/01/2025	11:05
VY0701SBS01	VY0701SBS01	VY022893.D	07/01/2025	11:34
TP-68	Q2458-03	VY022897.D	07/01/2025	13:20
TP-66	Q2458-05	VY022899.D	07/01/2025	15:06

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2458
Lab File ID: VY022902.D
BFB Injection Date: 07/02/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:51
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

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	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	6.1 (7.3) 1
176	95.0 - 101.0% of mass 174	81.3 (97.3) 1
177	5.0 - 9.0% of mass 176	5.4 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022903.D	07/02/2025	10:37
VY0702SBL01	VY0702SBL01	VY022904.D	07/02/2025	11:42
VY0702SBS01	VY0702SBS01	VY022905.D	07/02/2025	12:12
TP-67	Q2458-04	VY022912.D	07/02/2025	15:09
TP-60	Q2458-06	VY022913.D	07/02/2025	15:33
TP-62	Q2458-07	VY022914.D	07/02/2025	15:56
TP-63	Q2458-08	VY022915.D	07/02/2025	16:20

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: VY022928.D | BFB Injection Date: 07/03/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:03

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	56.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 100.0% of mass 95	85.2
175	5.0 - 9.0% of mass 174	6.3 (7.3) 1
176	95.0 - 101.0% of mass 174	81 (95.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022929.D	07/03/2025	09:26
VY0703SBL01	VY0703SBL01	VY022930.D	07/03/2025	09:57
VY0703SBS01	VY0703SBS01	VY022931.D	07/03/2025	10:29
TP-59	Q2458-09	VY022937.D	07/03/2025	13:03

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VX046869.D Date Analyzed: 07/03/2025

Instrument ID: MSVOA_X Time Analyzed: 08:19

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	416385	5.56	663948	6.76	582621	10.05
UPPER LIMIT	832770	6.056	1327900	7.263	1165240	10.549
LOWER LIMIT	208193	5.056	331974	6.263	291311	9.549
EPA SAMPLE NO.						
FB-06272025	397171	5.56	689071	6.76	628783	10.05
VX0703WBL01	435949	5.56	752530	6.76	691838	10.05
VX0703WBS01	380935	5.56	631809	6.77	572542	10.06
VX0703WBSD01	339915	5.56	568093	6.76	517645	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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VX046869.D Date Analyzed: 07/03/2025

Instrument ID: MSVOA_X Time Analyzed: 08:19

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

	IS4 AREA #	RT #				
12 HOUR STD	287854	12.018				
UPPER LIMIT	575708	12.518				
LOWER LIMIT	143927	11.518				
EPA SAMPLE NO.						
FB-06272025	317895	12.02				
VX0703WBL01	351915	12.02				
VX0703WBS01	293826	12.02				
VX0703WBSD01	269874	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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022872.D Date Analyzed: 06/30/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	450935	7.71	753538	8.62	651538	11.41
UPPER LIMIT	901870	8.207	1507080	9.115	1303080	11.914
LOWER LIMIT	225468	7.207	376769	8.115	325769	10.914
EPA SAMPLE NO.						
TP-76	303882	7.71	573423	8.62	579838	11.41
TP-55	302919	7.71	573452	8.62	562005	11.41
VY0630SBL01	371114	7.71	672085	8.62	635637	11.41
VY0630SBS01	473861	7.71	796065	8.62	673720	11.41
VY0630SBSD01	457956	7.71	769619	8.62	654092	11.41

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022872.D Date Analyzed: 06/30/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	313014	13.346				
UPPER LIMIT	626028	13.846				
LOWER LIMIT	156507	12.846				
EPA SAMPLE NO.						
TP-76	256613	13.34				
TP-55	240190	13.35				
VY0630SBL01	274914	13.35				
VY0630SBS01	318118	13.34				
VY0630SBSD01	308766	13.34				

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022891.D Date Analyzed: 07/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:32

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	433923	7.71	723740	8.62	623953	11.41
UPPER LIMIT	867846	8.213	1447480	9.115	1247910	11.914
LOWER LIMIT	216962	7.213	361870	8.115	311977	10.914
EPA SAMPLE NO.						
TP-68	309337	7.71	580195	8.61	586876	11.41
TP-66	227063	7.71	478916	8.62	482244	11.41
VY0701SBL01	323968	7.71	617486	8.62	600262	11.41
VY0701SBS01	427188	7.71	723243	8.62	617191	11.41

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022891.D Date Analyzed: 07/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:32

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	315665	13.346				
UPPER LIMIT	631330	13.846				
LOWER LIMIT	157833	12.846				
EPA SAMPLE NO.						
TP-68	251388	13.35				
TP-66	188370	13.35				
VY0701SBL01	258497	13.35				
VY0701SBS01	293207	13.34				

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022903.D Date Analyzed: 07/02/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	453239	7.71	750175	8.62	644334	11.41
UPPER LIMIT	906478	8.213	1500350	9.116	1288670	11.914
LOWER LIMIT	226620	7.213	375088	8.116	322167	10.914
EPA SAMPLE NO.						
TP-67	314085	7.71	602578	8.62	586720	11.41
TP-60	284075	7.71	537745	8.62	538792	11.41
TP-62	277237	7.71	536046	8.62	553104	11.41
TP-63	278456	7.71	537398	8.62	515031	11.41
VY0702SBL01	327303	7.71	608180	8.62	599654	11.42
VY0702SBS01	424569	7.71	714057	8.62	598160	11.41

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022903.D Date Analyzed: 07/02/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	321198	13.347				
UPPER LIMIT	642396	13.847				
LOWER LIMIT	160599	12.847				
EPA SAMPLE NO.						
TP-67	246551	13.35				
TP-60	220375	13.35				
TP-62	246603	13.35				
TP-63	195752	13.35				
VY0702SBL01	251367	13.35				
VY0702SBS01	274634	13.35				

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022929.D Date Analyzed: 07/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	402903	7.71	653588	8.62	556811	11.41
UPPER LIMIT	805806	8.207	1307180	9.116	1113620	11.914
LOWER LIMIT	201452	7.207	326794	8.116	278406	10.914
EPA SAMPLE NO.						
TP-59	268585	7.71	499539	8.62	495456	11.41
VY0703SBL01	297416	7.71	558302	8.62	553906	11.41
VY0703SBS01	387913	7.71	648160	8.62	537972	11.41

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: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: VY022929.D Date Analyzed: 07/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	273118	13.347				
UPPER LIMIT	546236	13.847				
LOWER LIMIT	136559	12.847				
EPA SAMPLE NO.						
TP-59	213523	13.35				
VY0703SBL01	230762	13.35				
VY0703SBS01	252496	13.35				

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBL01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046871.D	1	07/03/25 09:09	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	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
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	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
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBL01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046871.D	1	07/03/25 09:09	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	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
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	436000	5.556			
540-36-3	1,4-Difluorobenzene	753000	6.763			
3114-55-4	Chlorobenzene-d5	692000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	352000	12.018			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBL01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046871.D	1	07/03/25 09:09	VX070325

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022873.D	1	06/30/25 11:39	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022873.D	1	06/30/25 11:39	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.2		63 - 155	88%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	371000	7.707			
540-36-3	1,4-Difluorobenzene	672000	8.615			
3114-55-4	Chlorobenzene-d5	636000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	275000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022873.D	1	06/30/25 11:39	VY063025

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022892.D	1	07/01/25 11:05	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022892.D	1	07/01/25 11:05	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		17 - 146	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	324000	7.707			
540-36-3	1,4-Difluorobenzene	617000	8.616			
3114-55-4	Chlorobenzene-d5	600000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	258000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022892.D	1	07/01/25 11:05	VY070125

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022904.D	1	07/02/25 11:42	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022904.D	1	07/02/25 11:42	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		17 - 146	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	327000	7.713			
540-36-3	1,4-Difluorobenzene	608000	8.616			
3114-55-4	Chlorobenzene-d5	600000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022904.D	1	07/02/25 11:42	VY070225

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022930.D	1	07/03/25 09:57	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022930.D	1	07/03/25 09:57	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	52.1		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		17 - 146	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	297000	7.707			
540-36-3	1,4-Difluorobenzene	558000	8.615			
3114-55-4	Chlorobenzene-d5	554000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	231000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBL01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022930.D	1	07/03/25 09:57	VY070325

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBS01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046873.D	1	07/03/25 09:56	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.22	1.00	ug/L
74-87-3	Chloromethane	19.0		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.7		0.26	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.2		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.23	1.00	ug/L
67-64-1	Acetone	86.7		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.0		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	18.5		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.2		1.50	5.00	ug/L
78-93-3	2-Butanone	93.1		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.19	1.00	ug/L
74-97-5	Bromochloromethane	16.0		0.22	1.00	ug/L
67-66-3	Chloroform	19.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.16	1.00	ug/L
71-43-2	Benzene	18.9		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.2		0.68	5.00	ug/L
108-88-3	Toluene	19.1		0.14	1.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBS01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046873.D	1	07/03/25 09:56	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	92.1		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.24	2.00	ug/L
95-47-6	o-Xylene	18.7		0.12	1.00	ug/L
100-42-5	Styrene	19.3		0.15	1.00	ug/L
75-25-2	Bromoform	18.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.6		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.4		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.8		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.9		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	381000	5.562			
540-36-3	1,4-Difluorobenzene	632000	6.769			
3114-55-4	Chlorobenzene-d5	573000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	294000	12.018			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBS01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046873.D	1	07/03/25 09:56	VX070325

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022874.D	1	06/30/25 12:09	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	21.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.6		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.8		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	21.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.0		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.6		1.20	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	90.8		3.60	25.0	ug/Kg
108-88-3	Toluene	19.7		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022874.D	1	06/30/25 12:09	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.8		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.8		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	98.0		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.3		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.6		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	474000	7.707			
540-36-3	1,4-Difluorobenzene	796000	8.616			
3114-55-4	Chlorobenzene-d5	674000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	318000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022874.D	1	06/30/25 12:09	VY063025

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022893.D	1	07/01/25 11:34	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.4		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.0		0.79	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022893.D	1	07/01/25 11:34	VY070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	427000	7.707			
540-36-3	1,4-Difluorobenzene	723000	8.616			
3114-55-4	Chlorobenzene-d5	617000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	293000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0701SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0701SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022893.D	1	07/01/25 11:34	VY070125

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022905.D	1	07/02/25 12:12	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.7		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	97.2		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	89.3		3.60	25.0	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022905.D	1	07/02/25 12:12	VY070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	90.1		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.3		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.4		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.9		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	425000	7.707			
540-36-3	1,4-Difluorobenzene	714000	8.616			
3114-55-4	Chlorobenzene-d5	598000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	275000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0702SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0702SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022905.D	1	07/02/25 12:12	VY070225

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022931.D	1	07/03/25 10:29	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.1		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.2		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.1		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	16.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	21.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.2		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	88.7		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022931.D	1	07/03/25 10:29	VY070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	97.3		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.4		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.82	5.00	ug/Kg
100-42-5	Styrene	20.2		0.71	5.00	ug/Kg
75-25-2	Bromoform	17.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	16.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	388000	7.707			
540-36-3	1,4-Difluorobenzene	648000	8.616			
3114-55-4	Chlorobenzene-d5	538000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	252000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0703SBS01	SDG No.:	Q2458
Lab Sample ID:	VY0703SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022931.D	1	07/03/25 10:29	VY070325

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBSD01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046874.D	1	07/03/25 10:23	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.22	1.00	ug/L
74-87-3	Chloromethane	19.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.26	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
67-64-1	Acetone	91.0		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.5		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.1		1.50	5.00	ug/L
78-93-3	2-Butanone	98.7		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.5		0.22	1.00	ug/L
67-66-3	Chloroform	20.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.16	1.00	ug/L
71-43-2	Benzene	19.8		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.0		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	20.1		0.14	1.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBSD01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046874.D	1	07/03/25 10:23	VX070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.9		0.24	2.00	ug/L
95-47-6	o-Xylene	19.7		0.12	1.00	ug/L
100-42-5	Styrene	20.1		0.15	1.00	ug/L
75-25-2	Bromoform	19.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.3		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.5		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	340000	5.556			
540-36-3	1,4-Difluorobenzene	568000	6.763			
3114-55-4	Chlorobenzene-d5	518000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	270000	12.018			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0703WBSD01	SDG No.:	Q2458
Lab Sample ID:	VX0703WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX046874.D	1	07/03/25 10:23	VX070325

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBSD01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022875.D	1	06/30/25 12:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.0		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.2		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.4		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.5		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.4		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.3		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	98.1		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBSD01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022875.D	1	06/30/25 12:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.3		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.6		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.3		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		17 - 146	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	458000	7.707			
540-36-3	1,4-Difluorobenzene	770000	8.616			
3114-55-4	Chlorobenzene-d5	654000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	309000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBSD01	SDG No.:	Q2458
Lab Sample ID:	VY0630SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY022875.D	1	06/30/25 12:32	VY063025

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

CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: MSVOA_X Calibration Date(s): 07/02/2025 07/02/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:11 14:31

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

LAB FILE ID: RRF001 = VX046860.D RRF005 = VX046861.D RRF020 = VX046862.D
RRF050 = VX046863.D RRF100 = VX046864.D RRF150 = VX046865.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.445	0.433	0.512	0.487	0.503	0.490	0.478	6.7
Chloromethane	0.505	0.507	0.541	0.508	0.543	0.530	0.522	3.4
Vinyl Chloride	0.568	0.549	0.591	0.550	0.589	0.566	0.569	3.2
Bromomethane		0.402	0.402	0.360	0.369	0.295	0.366	12
Chloroethane	0.443	0.365	0.383	0.347	0.362	0.354	0.376	9.4
Trichlorofluoromethane	0.847	0.874	0.921	0.857	0.893	0.885	0.880	3
1,1,2-Trichlorotrifluoroethane	0.527	0.571	0.583	0.548	0.572	0.562	0.561	3.6
1,1-Dichloroethene	0.543	0.555	0.546	0.524	0.546	0.540	0.542	1.9
Acetone	0.236	0.210	0.195	0.193	0.197	0.200	0.205	7.9
Carbon Disulfide	1.585	1.425	1.405	1.342	1.398	1.376	1.422	6
Methyl tert-butyl Ether	1.447	1.470	1.540	1.528	1.587	1.615	1.531	4.2
Methyl Acetate	0.488	0.474	0.560	0.553	0.570	0.599	0.541	9.1
Methylene Chloride	0.623	0.625	0.624	0.585	0.596	0.588	0.607	3.1
trans-1,2-Dichloroethene	0.552	0.564	0.575	0.541	0.551	0.545	0.555	2.3
1,1-Dichloroethane	1.080	1.084	1.074	1.039	1.055	1.050	1.064	1.7
Cyclohexane		0.973	0.977	0.918	0.926	0.927	0.944	3
2-Butanone	0.260	0.270	0.275	0.275	0.276	0.286	0.274	3.1
Carbon Tetrachloride	0.471	0.505	0.495	0.476	0.480	0.478	0.484	2.7
cis-1,2-Dichloroethene	0.711	0.669	0.688	0.660	0.670	0.666	0.677	2.8
Bromochloromethane	0.529	0.543	0.524	0.528	0.516	0.508	0.525	2.3
Chloroform	1.150	1.106	1.112	1.048	1.052	1.050	1.087	3.9
1,1,1-Trichloroethane	0.944	0.897	0.908	0.886	0.901	0.910	0.908	2.2
Methylcyclohexane	0.539	0.588	0.589	0.567	0.578	0.576	0.573	3.2
Benzene	1.391	1.445	1.452	1.356	1.342	1.324	1.385	3.9
1,2-Dichloroethane	0.499	0.477	0.487	0.460	0.453	0.446	0.470	4.4
Trichloroethene	0.386	0.377	0.365	0.344	0.347	0.344	0.361	5
1,2-Dichloropropane	0.364	0.340	0.362	0.346	0.345	0.342	0.350	3
Bromodichloromethane	0.538	0.508	0.535	0.510	0.508	0.507	0.518	2.9
4-Methyl-2-Pentanone	0.330	0.340	0.368	0.366	0.353	0.357	0.353	4.3
Toluene	0.855	0.894	0.906	0.841	0.831	0.823	0.858	3.9

* 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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_X | Calibration Date(s): 07/02/2025 07/02/2025

Heated Purge: (Y/N) N | Calibration Time(s): 12:11 14:31

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

LAB FILE ID: RRF001 = VX046860.D RRF005 = VX046861.D RRF020 = VX046862.D
RRF050 = VX046863.D RRF100 = VX046864.D RRF150 = VX046865.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.408	0.431	0.467	0.472	0.490	0.504	0.462	7.8
cis-1,3-Dichloropropene	0.496	0.499	0.532	0.533	0.549	0.554	0.527	4.7
1,1,2-Trichloroethane	0.325	0.329	0.328	0.318	0.310	0.308	0.320	2.8
2-Hexanone	0.205	0.227	0.245	0.247	0.238	0.242	0.234	6.8
Dibromochloromethane	0.383	0.390	0.393	0.377	0.376	0.377	0.383	1.9
1,2-Dibromoethane	0.323	0.317	0.332	0.320	0.317	0.317	0.321	1.8
Tetrachloroethene	0.353	0.346	0.345	0.315	0.320	0.318	0.333	5.1
Chlorobenzene	1.111	1.117	1.113	1.049	1.051	1.045	1.081	3.3
Ethyl Benzene	1.810	1.868	1.929	1.830	1.846	1.824	1.851	2.3
m/p-Xylenes	0.702	0.710	0.731	0.688	0.683	0.672	0.698	3.1
o-Xylene	0.676	0.677	0.703	0.665	0.663	0.660	0.674	2.4
Styrene	1.070	1.152	1.228	1.175	1.157	1.134	1.153	4.5
Bromoform	0.269	0.261	0.273	0.269	0.275	0.275	0.270	1.9
Isopropylbenzene	3.267	3.428	3.611	3.601	3.592	3.590	3.515	4
1,1,2,2-Tetrachloroethane	1.000	0.948	0.981	0.963	0.939	0.968	0.966	2.3
1,3-Dichlorobenzene	1.615	1.664	1.673	1.627	1.625	1.619	1.637	1.5
1,4-Dichlorobenzene	1.852	1.776	1.711	1.632	1.622	1.632	1.704	5.5
1,2-Dichlorobenzene	1.626	1.592	1.625	1.568	1.560	1.550	1.587	2.1
1,2-Dibromo-3-Chloropropane	0.158	0.151	0.164	0.171	0.178	0.192	0.169	8.7
1,2,4-Trichlorobenzene	1.016	1.020	1.078	1.087	1.121	1.145	1.078	4.9
1,2,3-Trichlorobenzene	0.900	0.965	1.033	1.045	1.069	1.099	1.019	7.2
1,2-Dichloroethane-d4		0.722	0.652	0.647	0.641	0.640	0.661	5.3
Dibromofluoromethane		0.355	0.346	0.339	0.332	0.325	0.339	3.5
Toluene-d8		1.278	1.220	1.195	1.160	1.135	1.197	4.6
4-Bromofluorobenzene		0.493	0.469	0.455	0.433	0.426	0.455	6

* 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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_Y | Calibration Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022776.D RRF010 = VY022777.D RRF020 = VY022778.D
RRF050 = VY022779.D RRF100 = VY022780.D RRF150 = VY022781.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.424	0.456	0.474	0.424	0.404	0.384	0.428	7.7
Chloromethane	0.837	0.921	0.865	0.793	0.758	0.724	0.816	8.9
Vinyl Chloride	0.934	1.099	1.091	1.045	0.993	0.958	1.020	6.8
Bromomethane	0.784	0.885	0.854	0.771	0.760	0.756	0.802	6.8
Chloroethane	0.649	0.736	0.722	0.694	0.673	0.640	0.686	5.6
Trichlorofluoromethane	0.999	1.180	1.219	1.166	1.127	1.085	1.129	7
1,1,2-Trichlorotrifluoroethane	0.508	0.560	0.547	0.515	0.492	0.474	0.516	6.3
1,1-Dichloroethene	0.478	0.539	0.524	0.514	0.500	0.483	0.506	4.7
Acetone	0.117	0.124	0.114	0.095	0.096	0.087	0.105	13.9
Carbon Disulfide	1.516	1.705	1.731	1.667	1.625	1.566	1.635	5.1
Methyl tert-butyl Ether	1.173	1.398	1.396	1.435	1.460	1.405	1.378	7.5
Methyl Acetate	0.272	0.358	0.440	0.351	0.353	0.322	0.349	15.7
Methylene Chloride	0.840	0.777	0.664	0.590	0.578	0.548	0.666	17.7
trans-1,2-Dichloroethene	0.521	0.604	0.597	0.592	0.581	0.575	0.578	5.2
1,1-Dichloroethane	0.949	1.075	1.079	1.077	1.055	1.030	1.044	4.8
Cyclohexane	0.998	1.021	0.988	0.946	0.905	0.894	0.959	5.4
2-Butanone	0.145	0.160	0.160	0.153	0.156	0.147	0.154	4.4
Carbon Tetrachloride	0.439	0.498	0.507	0.491	0.492	0.491	0.486	5
cis-1,2-Dichloroethene	0.606	0.689	0.687	0.685	0.687	0.678	0.672	4.8
Bromochloromethane	0.437	0.431	0.437	0.459	0.443	0.427	0.439	2.6
Chloroform	0.986	1.130	1.099	1.096	1.084	1.059	1.076	4.6
1,1,1-Trichloroethane	0.847	0.945	0.973	0.950	0.939	0.923	0.929	4.7
Methylcyclohexane	0.543	0.589	0.610	0.618	0.608	0.611	0.596	4.7
Benzene	1.248	1.433	1.451	1.464	1.467	1.440	1.417	5.9
1,2-Dichloroethane	0.335	0.397	0.402	0.400	0.404	0.392	0.388	6.8
Trichloroethene	0.305	0.364	0.382	0.372	0.360	0.350	0.356	7.6
1,2-Dichloropropane	0.289	0.339	0.345	0.339	0.341	0.337	0.332	6.4
Bromodichloromethane	0.422	0.495	0.496	0.498	0.504	0.498	0.485	6.4
4-Methyl-2-Pentanone	0.168	0.201	0.215	0.226	0.230	0.221	0.210	10.9
Toluene	0.747	0.873	0.908	0.926	0.955	0.954	0.894	8.8

* 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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_Y | Calibration Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022776.D RRF010 = VY022777.D RRF020 = VY022778.D
RRF050 = VY022779.D RRF100 = VY022780.D RRF150 = VY022781.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.355	0.430	0.438	0.451	0.473	0.473	0.437	10
cis-1,3-Dichloropropene	0.412	0.503	0.523	0.524	0.540	0.538	0.506	9.6
1,1,2-Trichloroethane	0.207	0.249	0.249	0.253	0.255	0.250	0.244	7.4
2-Hexanone	0.115	0.140	0.145	0.151	0.157	0.149	0.143	10.5
Dibromochloromethane	0.260	0.315	0.321	0.329	0.336	0.329	0.315	8.8
1,2-Dibromoethane	0.193	0.231	0.229	0.237	0.244	0.236	0.228	7.8
Tetrachloroethene	0.399	0.465	0.535	0.515	0.473	0.446	0.472	10.3
Chlorobenzene	0.981	1.110	1.131	1.126	1.130	1.114	1.099	5.3
Ethyl Benzene	1.644	1.881	1.971	2.029	2.040	2.018	1.930	7.9
m/p-Xylenes	0.624	0.722	0.759	0.782	0.800	0.791	0.746	8.8
o-Xylene	0.578	0.674	0.708	0.734	0.759	0.765	0.703	10
Styrene	0.926	1.108	1.165	1.249	1.309	1.309	1.178	12.5
Bromoform	0.178	0.204	0.203	0.212	0.225	0.220	0.207	8
Isopropylbenzene	3.354	3.764	3.823	3.778	3.709	3.759	3.698	4.7
1,1,2,2-Tetrachloroethane	0.597	0.659	0.566	0.567	0.594	0.593	0.596	5.6
1,3-Dichlorobenzene	1.546	1.660	1.692	1.708	1.750	1.744	1.683	4.5
1,4-Dichlorobenzene	1.564	1.740	1.688	1.685	1.690	1.666	1.672	3.5
1,2-Dichlorobenzene	1.395	1.488	1.502	1.499	1.515	1.502	1.483	3
1,2-Dibromo-3-Chloropropane	0.102	0.101	0.103	0.103	0.102	0.096	0.101	2.7
1,2,4-Trichlorobenzene	0.778	0.841	0.848	0.843	0.871	0.845	0.838	3.7
1,2,3-Trichlorobenzene	0.679	0.723	0.735	0.728	0.751	0.727	0.724	3.3
1,2-Dichloroethane-d4	0.568	0.550	0.557	0.559	0.571	0.545	0.558	1.8
Dibromofluoromethane	0.306	0.297	0.295	0.304	0.314	0.308	0.304	2.3
Toluene-d8	1.182	1.148	1.186	1.215	1.262	1.247	1.207	3.6
4-Bromofluorobenzene	0.368	0.362	0.370	0.385	0.423	0.421	0.388	7

* 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.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_X | Calibration Date/Time: 07/03/2025 08:19

Lab File ID: VX046869.D | Init. Calib. Date(s): 07/02/2025 07/02/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:11 14:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.478	0.537		12.34	20
Chloromethane	0.522	0.558	0.1	6.9	20
Vinyl Chloride	0.569	0.604		6.15	20
Bromomethane	0.366	0.389		6.28	20
Chloroethane	0.376	0.375		-0.27	20
Trichlorofluoromethane	0.880	0.928		5.45	20
1,1,2-Trichlorotrifluoroethane	0.561	0.587		4.64	20
1,1-Dichloroethene	0.542	0.555		2.4	20
Acetone	0.205	0.211		2.93	20
Carbon Disulfide	1.422	1.427		0.35	20
Methyl tert-butyl Ether	1.531	1.544		0.85	20
Methyl Acetate	0.541	0.539		-0.37	20
Methylene Chloride	0.607	0.613		0.99	20
trans-1,2-Dichloroethene	0.555	0.565		1.8	20
1,1-Dichloroethane	1.064	1.066	0.1	0.19	20
Cyclohexane	0.944	0.920		-2.54	20
2-Butanone	0.274	0.255		-6.93	20
Carbon Tetrachloride	0.484	0.485		0.21	20
cis-1,2-Dichloroethene	0.677	0.672		-0.74	20
Bromochloromethane	0.525	0.520		-0.95	20
Chloroform	1.087	1.054		-3.04	20
1,1,1-Trichloroethane	0.908	0.890		-1.98	20
Methylcyclohexane	0.573	0.568		-0.87	20
Benzene	1.385	1.373		-0.87	20
1,2-Dichloroethane	0.470	0.464		-1.28	20
Trichloroethene	0.361	0.350		-3.05	20
1,2-Dichloropropane	0.350	0.343		-2	20
Bromodichloromethane	0.518	0.510		-1.54	20
4-Methyl-2-Pentanone	0.353	0.332		-5.95	20
Toluene	0.858	0.841		-1.98	20
t-1,3-Dichloropropene	0.462	0.460		-0.43	20
cis-1,3-Dichloropropene	0.527	0.530		0.57	20
1,1,2-Trichloroethane	0.320	0.308		-3.75	20
2-Hexanone	0.234	0.224		-4.27	20
Dibromochloromethane	0.383	0.374		-2.35	20
1,2-Dibromoethane	0.321	0.309		-3.74	20
Tetrachloroethene	0.333	0.324		-2.7	20
Chlorobenzene	1.081	1.046	0.3	-3.24	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: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_X | Calibration Date/Time: 07/03/2025 08:19

Lab File ID: VX046869.D | Init. Calib. Date(s): 07/02/2025 07/02/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:11 14:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.835		-0.86	20
m/p-Xylenes	0.698	0.690		-1.15	20
o-Xylene	0.674	0.666		-1.19	20
Styrene	1.153	1.148		-0.43	20
Bromoform	0.270	0.264	0.1	-2.22	20
Isopropylbenzene	3.515	3.558		1.22	20
1,1,2,2-Tetrachloroethane	0.966	0.901	0.3	-6.73	20
1,3-Dichlorobenzene	1.637	1.599		-2.32	20
1,4-Dichlorobenzene	1.704	1.592		-6.57	20
1,2-Dichlorobenzene	1.587	1.508		-4.98	20
1,2-Dibromo-3-Chloropropane	0.169	0.156		-7.69	20
1,2,4-Trichlorobenzene	1.078	1.054		-2.23	20
1,2,3-Trichlorobenzene	1.019	0.991		-2.75	20
1,2-Dichloroethane-d4	0.661	0.644		-2.57	20
Dibromofluoromethane	0.339	0.351		3.54	20
Toluene-d8	1.197	1.191		-0.5	20
4-Bromofluorobenzene	0.455	0.447		-1.76	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: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2458
Instrument ID: MSVOA_Y
Calibration Date/Time: 06/30/2025 11:03
Lab File ID: VY022872.D
Init. Calib. Date(s): 06/23/2025 06/23/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 13:38 15:31
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.394		-7.94	20
Chloromethane	0.816	0.771	0.1	-5.51	20
Vinyl Chloride	1.020	0.967		-5.2	20
Bromomethane	0.802	0.735		-8.35	20
Chloroethane	0.686	0.666		-2.91	20
Trichlorofluoromethane	1.129	1.080		-4.34	20
1,1,2-Trichlorotrifluoroethane	0.516	0.554		7.36	20
1,1-Dichloroethene	0.506	0.562		11.07	20
Acetone	0.105	0.124		18.09	20
Carbon Disulfide	1.635	1.820		11.31	20
Methyl tert-butyl Ether	1.378	1.494		8.42	20
Methyl Acetate	0.349	0.300		-14.04	20
Methylene Chloride	0.666	0.725		8.86	20
trans-1,2-Dichloroethene	0.578	0.648		12.11	20
1,1-Dichloroethane	1.044	1.203	0.1	15.23	20
Cyclohexane	0.959	1.049		9.39	20
2-Butanone	0.154	0.166		7.79	20
Carbon Tetrachloride	0.486	0.536		10.29	20
cis-1,2-Dichloroethene	0.672	0.765		13.84	20
Bromochloromethane	0.439	0.448		2.05	20
Chloroform	1.076	1.198		11.44	20
1,1,1-Trichloroethane	0.929	1.028		10.66	20
Methylcyclohexane	0.596	0.679		13.93	20
Benzene	1.417	1.617		14.11	20
1,2-Dichloroethane	0.388	0.429		10.57	20
Trichloroethene	0.356	0.404		13.48	20
1,2-Dichloropropane	0.332	0.380		14.46	20
Bromodichloromethane	0.485	0.546		12.58	20
4-Methyl-2-Pentanone	0.210	0.221		5.24	20
Toluene	0.894	1.029		15.1	20
t-1,3-Dichloropropene	0.437	0.496		13.5	20
cis-1,3-Dichloropropene	0.506	0.585		15.61	20
1,1,2-Trichloroethane	0.244	0.262		7.38	20
2-Hexanone	0.143	0.150		4.89	20
Dibromochloromethane	0.315	0.338		7.3	20
1,2-Dibromoethane	0.228	0.244		7.02	20
Tetrachloroethene	0.472	0.539		14.19	20
Chlorobenzene	1.099	1.262	0.3	14.83	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: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_Y | Calibration Date/Time: 06/30/2025 11:03

Lab File ID: VY022872.D | Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.279		18.08	20
m/p-Xylenes	0.746	0.876		17.43	20
o-Xylene	0.703	0.826		17.5	20
Styrene	1.178	1.368		16.13	20
Bromoform	0.207	0.217	0.1	4.83	20
Isopropylbenzene	3.698	4.437		19.98	20
1,1,2,2-Tetrachloroethane	0.596	0.623	0.3	4.53	20
1,3-Dichlorobenzene	1.683	1.949		15.81	20
1,4-Dichlorobenzene	1.672	1.902		13.76	20
1,2-Dichlorobenzene	1.483	1.663		12.14	20
1,2-Dibromo-3-Chloropropane	0.101	0.098		-2.97	20
1,2,4-Trichlorobenzene	0.838	0.907		8.23	20
1,2,3-Trichlorobenzene	0.724	0.733		1.24	20
1,2-Dichloroethane-d4	0.558	0.541		-3.05	20
Dibromofluoromethane	0.304	0.310		1.97	20
Toluene-d8	1.207	1.238		2.57	20
4-Bromofluorobenzene	0.388	0.386		-0.51	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: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2458
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/01/2025 10:32
Lab File ID: VY022891.D
Init. Calib. Date(s): 06/23/2025 06/23/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 13:38 15:31
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.435		1.64	20
Chloromethane	0.816	0.978	0.1	19.85	20
Vinyl Chloride	1.020	1.097		7.55	20
Bromomethane	0.802	0.865		7.86	20
Chloroethane	0.686	0.760		10.79	20
Trichlorofluoromethane	1.129	1.161		2.83	20
1,1,2-Trichlorotrifluoroethane	0.516	0.562		8.91	20
1,1-Dichloroethene	0.506	0.552		9.09	20
Acetone	0.105	0.124		18.09	20
Carbon Disulfide	1.635	1.756		7.4	20
Methyl tert-butyl Ether	1.378	1.513		9.8	20
Methyl Acetate	0.349	0.323		-7.45	20
Methylene Chloride	0.666	0.681		2.25	20
trans-1,2-Dichloroethene	0.578	0.625		8.13	20
1,1-Dichloroethane	1.044	1.172	0.1	12.26	20
Cyclohexane	0.959	1.037		8.13	20
2-Butanone	0.154	0.172		11.69	20
Carbon Tetrachloride	0.486	0.545		12.14	20
cis-1,2-Dichloroethene	0.672	0.744		10.71	20
Bromochloromethane	0.439	0.449		2.28	20
Chloroform	1.076	1.169		8.74	20
1,1,1-Trichloroethane	0.929	1.030		10.87	20
Methylcyclohexane	0.596	0.685		14.93	20
Benzene	1.417	1.588		12.07	20
1,2-Dichloroethane	0.388	0.425		9.54	20
Trichloroethene	0.356	0.384		7.86	20
1,2-Dichloropropane	0.332	0.374		12.65	20
Bromodichloromethane	0.485	0.542		11.75	20
4-Methyl-2-Pentanone	0.210	0.236		12.38	20
Toluene	0.894	1.012		13.2	20
t-1,3-Dichloropropene	0.437	0.505		15.56	20
cis-1,3-Dichloropropene	0.506	0.581		14.82	20
1,1,2-Trichloroethane	0.244	0.264		8.2	20
2-Hexanone	0.143	0.163		13.99	20
Dibromochloromethane	0.315	0.346		9.84	20
1,2-Dibromoethane	0.228	0.245		7.46	20
Tetrachloroethene	0.472	0.476		0.85	20
Chlorobenzene	1.099	1.246	0.3	13.38	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: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/01/2025 10:32

Lab File ID: VY022891.D | Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.269		17.57	20
m/p-Xylenes	0.746	0.877		17.56	20
o-Xylene	0.703	0.823		17.07	20
Styrene	1.178	1.383		17.4	20
Bromoform	0.207	0.226	0.1	9.18	20
Isopropylbenzene	3.698	4.253		15.01	20
1,1,2,2-Tetrachloroethane	0.596	0.673	0.3	12.92	20
1,3-Dichlorobenzene	1.683	1.900		12.89	20
1,4-Dichlorobenzene	1.672	1.835		9.75	20
1,2-Dichlorobenzene	1.483	1.637		10.38	20
1,2-Dibromo-3-Chloropropane	0.101	0.103		1.98	20
1,2,4-Trichlorobenzene	0.838	0.896		6.92	20
1,2,3-Trichlorobenzene	0.724	0.731		0.97	20
1,2-Dichloroethane-d4	0.558	0.559		0.18	20
Dibromofluoromethane	0.304	0.316		3.95	20
Toluene-d8	1.207	1.257		4.14	20
4-Bromofluorobenzene	0.388	0.412		6.19	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: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2458
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/02/2025 10:37
Lab File ID: VY022903.D
Init. Calib. Date(s): 06/23/2025 06/23/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 13:38 15:31
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.411		-3.97	20
Chloromethane	0.816	0.897	0.1	9.93	20
Vinyl Chloride	1.020	1.044		2.35	20
Bromomethane	0.802	0.808		0.75	20
Chloroethane	0.686	0.718		4.66	20
Trichlorofluoromethane	1.129	1.131		0.18	20
1,1,2-Trichlorotrifluoroethane	0.516	0.529		2.52	20
1,1-Dichloroethene	0.506	0.524		3.56	20
Acetone	0.105	0.130		23.81	20
Carbon Disulfide	1.635	1.666		1.9	20
Methyl tert-butyl Ether	1.378	1.459		5.88	20
Methyl Acetate	0.349	0.342		-2.01	20
Methylene Chloride	0.666	0.654		-1.8	20
trans-1,2-Dichloroethene	0.578	0.601		3.98	20
1,1-Dichloroethane	1.044	1.127	0.1	7.95	20
Cyclohexane	0.959	1.013		5.63	20
2-Butanone	0.154	0.175		13.64	20
Carbon Tetrachloride	0.486	0.518		6.58	20
cis-1,2-Dichloroethene	0.672	0.696		3.57	20
Bromochloromethane	0.439	0.455		3.64	20
Chloroform	1.076	1.121		4.28	20
1,1,1-Trichloroethane	0.929	0.989		6.46	20
Methylcyclohexane	0.596	0.656		10.07	20
Benzene	1.417	1.521		7.34	20
1,2-Dichloroethane	0.388	0.415		6.96	20
Trichloroethene	0.356	0.379		6.46	20
1,2-Dichloropropane	0.332	0.363		9.34	20
Bromodichloromethane	0.485	0.513		5.77	20
4-Methyl-2-Pentanone	0.210	0.238		13.33	20
Toluene	0.894	0.967		8.17	20
t-1,3-Dichloropropene	0.437	0.480		9.84	20
cis-1,3-Dichloropropene	0.506	0.551		8.89	20
1,1,2-Trichloroethane	0.244	0.260		6.56	20
2-Hexanone	0.143	0.165		15.39	20
Dibromochloromethane	0.315	0.331		5.08	20
1,2-Dibromoethane	0.228	0.239		4.82	20
Tetrachloroethene	0.472	0.498		5.51	20
Chlorobenzene	1.099	1.178	0.3	7.19	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: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2458

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/02/2025 10:37

Lab File ID: VY022903.D | Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.164		12.12	20
m/p-Xylenes	0.746	0.834		11.8	20
o-Xylene	0.703	0.783		11.38	20
Styrene	1.178	1.313		11.46	20
Bromoform	0.207	0.220	0.1	6.28	20
Isopropylbenzene	3.698	4.114		11.25	20
1,1,2,2-Tetrachloroethane	0.596	0.635	0.3	6.54	20
1,3-Dichlorobenzene	1.683	1.822		8.26	20
1,4-Dichlorobenzene	1.672	1.793		7.24	20
1,2-Dichlorobenzene	1.483	1.577		6.34	20
1,2-Dibromo-3-Chloropropane	0.101	0.105		3.96	20
1,2,4-Trichlorobenzene	0.838	0.880		5.01	20
1,2,3-Trichlorobenzene	0.724	0.729		0.69	20
1,2-Dichloroethane-d4	0.558	0.550		-1.43	20
Dibromofluoromethane	0.304	0.303		-0.33	20
Toluene-d8	1.207	1.217		0.83	20
4-Bromofluorobenzene	0.388	0.389		0.26	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: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2458
Instrument ID: MSVOA_Y
Calibration Date/Time: 07/03/2025 09:26
Lab File ID: VY022929.D
Init. Calib. Date(s): 06/23/2025 06/23/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 13:38 15:31
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.395		-7.71	20
Chloromethane	0.816	0.853	0.1	4.53	20
Vinyl Chloride	1.020	1.001		-1.86	20
Bromomethane	0.802	0.783		-2.37	20
Chloroethane	0.686	0.704		2.62	20
Trichlorofluoromethane	1.129	1.112		-1.51	20
1,1,2-Trichlorotrifluoroethane	0.516	0.521		0.97	20
1,1-Dichloroethene	0.506	0.499		-1.38	20
Acetone	0.105	0.122		16.19	20
Carbon Disulfide	1.635	1.601		-2.08	20
Methyl tert-butyl Ether	1.378	1.350		-2.03	20
Methyl Acetate	0.349	0.306		-12.32	20
Methylene Chloride	0.666	0.618		-7.21	20
trans-1,2-Dichloroethene	0.578	0.573		-0.87	20
1,1-Dichloroethane	1.044	1.086	0.1	4.02	20
Cyclohexane	0.959	0.963		0.42	20
2-Butanone	0.154	0.158		2.6	20
Carbon Tetrachloride	0.486	0.511		5.14	20
cis-1,2-Dichloroethene	0.672	0.674		0.3	20
Bromochloromethane	0.439	0.476		8.43	20
Chloroform	1.076	1.085		0.93	20
1,1,1-Trichloroethane	0.929	0.949		2.15	20
Methylcyclohexane	0.596	0.639		7.22	20
Benzene	1.417	1.504		6.14	20
1,2-Dichloroethane	0.388	0.408		5.16	20
Trichloroethene	0.356	0.371		4.21	20
1,2-Dichloropropane	0.332	0.354		6.63	20
Bromodichloromethane	0.485	0.508		4.74	20
4-Methyl-2-Pentanone	0.210	0.223		6.19	20
Toluene	0.894	0.947		5.93	20
t-1,3-Dichloropropene	0.437	0.460		5.26	20
cis-1,3-Dichloropropene	0.506	0.534		5.53	20
1,1,2-Trichloroethane	0.244	0.251		2.87	20
2-Hexanone	0.143	0.154		7.69	20
Dibromochloromethane	0.315	0.319		1.27	20
1,2-Dibromoethane	0.228	0.231		1.32	20
Tetrachloroethene	0.472	0.517		9.53	20
Chlorobenzene	1.099	1.171	0.3	6.55	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: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: MSVOA_Y Calibration Date/Time: 07/03/2025 09:26

Lab File ID: VY022929.D Init. Calib. Date(s): 06/23/2025 06/23/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:38 15:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.129		10.31	20
m/p-Xylenes	0.746	0.813		8.98	20
o-Xylene	0.703	0.753		7.11	20
Styrene	1.178	1.277		8.4	20
Bromoform	0.207	0.207	0.1	0	20
Isopropylbenzene	3.698	4.069		10.03	20
1,1,2,2-Tetrachloroethane	0.596	0.596	0.3	0	20
1,3-Dichlorobenzene	1.683	1.801		7.01	20
1,4-Dichlorobenzene	1.672	1.727		3.29	20
1,2-Dichlorobenzene	1.483	1.511		1.89	20
1,2-Dibromo-3-Chloropropane	0.101	0.094		-6.93	20
1,2,4-Trichlorobenzene	0.838	0.802		-4.3	20
1,2,3-Trichlorobenzene	0.724	0.673		-7.04	20
1,2-Dichloroethane-d4	0.558	0.550		-1.43	20
Dibromofluoromethane	0.304	0.318		4.61	20
Toluene-d8	1.207	1.258		4.22	20
4-Bromofluorobenzene	0.388	0.393		1.29	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:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	

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LAB CHRONICLE

			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/01/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/02/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/01/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/03/25	07/03/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.6 Decanted:
Sample Wt/Vol:	4.12 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031974.D	1	06/30/25 14:40	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	12.0	J	11.0	60.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.3		50 - 150	82%	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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	91.4 Decanted:
Sample Wt/Vol:	4.69 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031975.D	1	06/30/25 15:08	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	52.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.6		50 - 150	78%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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
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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	92.3 Decanted:
Sample Wt/Vol:	3.61 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031976.D	1	06/30/25 15:36	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	J	12.0	68.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.5		50 - 150	77%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	4 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031977.D	1	06/30/25 16:04	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	J	12.0	63.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.3		50 - 150	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.3 Decanted:
Sample Wt/Vol:	5.18 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031978.D	1	06/30/25 16:31	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	J	9.00	49.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.9		50 - 150	75%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	92.5 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031979.D	1	06/30/25 16:59	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	J	9.00	49.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.7		50 - 150	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	91.1 Decanted:
Sample Wt/Vol:	3.77 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031989.D	1	07/01/25 12:38	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	12.0	U	12.0	66.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.9		50 - 150	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.4 Decanted:
Sample Wt/Vol:	4.3 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031981.D	1	06/30/25 17:55	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	61.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.2		50 - 150	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
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() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	76.6 Decanted:
Sample Wt/Vol:	4.3 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031982.D	1	06/30/25 18:23	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	15.0	J	13.0	68.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.3		50 - 150	82%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031994.D	1	07/01/25 15:23	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	8.00	J	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	11.6		50 - 150	58%	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

QC SUMMARY

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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2458

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0630S1	80				0
BSF0630S1	86				0
BSF0630S2	99				0
TP-76	82				0
TP-55	78				0
TP-68	77				0
TP-67	81				0
TP-66	75				0
TP-60	94				0
TP-63	91				0
TP-59	82				0
VBF0701S1	89				0
BSF0701S1	92				0
TP-62	95				0
VBF0701W1	99				0
BSF0701W1	104				0
FB-06272025	58				0
BSF0701W2	102				0

	QC LIMITS
AAA-TFT	For Water : 50-150 For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : BSF0630S1 **Datafile:** FB031967.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	168	93	50-150

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : BSF0630S2 **Datafile:** FB031972.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	170	94	50-150

LCS/LCSD % Recovery RPD : 1.2

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : BSF0701S1 **Datafile:** FB031988.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	166	92	50-150

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WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLIC

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : BSF0701W1 **Datafile:** FB031993.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
GRO	180	0	165	92	50-150

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WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLIC

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : BSF0701W2 **Datafile:** FB031995.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
GRO	180	0	170	94	50-150

LCS/LCSD % Recovery RPD : 2.9

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0630S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: FB031965.D Lab Sample ID: VBF0630S1

Date Analyzed: 06/30/25 Time Analyzed: 10:12

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0630S1	BSF0630S1	FB031967.D	06/30/25
BSF0630S2	BSF0630S2	FB031972.D	06/30/25
TP-76	Q2458-01	FB031974.D	06/30/25
TP-55	Q2458-02	FB031975.D	06/30/25
TP-68	Q2458-03	FB031976.D	06/30/25
TP-67	Q2458-04	FB031977.D	06/30/25
TP-66	Q2458-05	FB031978.D	06/30/25
TP-60	Q2458-06	FB031979.D	06/30/25
TP-63	Q2458-08	FB031981.D	06/30/25
TP-59	Q2458-09	FB031982.D	06/30/25

COMMENTS:

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0701S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: FB031986.D Lab Sample ID: VBF0701S1

Date Analyzed: 07/01/25 Time Analyzed: 10:40

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0701S1	BSF0701S1	FB031988.D	07/01/25
TP-62	Q2458-07	FB031989.D	07/01/25

COMMENTS:

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METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0701W1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: FB031992.D Lab Sample ID: VBF0701W1

Date Analyzed: 07/01/25 Time Analyzed: 14:14

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0701W1	BSF0701W1	FB031993.D	07/01/25
FB-06272025	Q2458-10	FB031994.D	07/01/25
BSF0701W2	BSF0701W2	FB031995.D	07/01/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0630S1	SDG No.:	Q2458
Lab Sample ID:	VBF0630S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031965.D	1	06/30/25 10:12	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.0		50 - 150	80%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0701S1	SDG No.:	Q2458
Lab Sample ID:	VBF0701S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031986.D	1	07/01/25 10:40	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0701W1	SDG No.:	Q2458
Lab Sample ID:	VBF0701W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031992.D	1	07/01/25 14:14	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	6.00	U	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.8		50 - 150	99%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0630S1	SDG No.:	Q2458
Lab Sample ID:	BSF0630S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031967.D	1	06/30/25 11:08	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	168		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.2		50 - 150	86%	SPK: 20

Comments:

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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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0701S1	SDG No.:	Q2458
Lab Sample ID:	BSF0701S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031988.D	1	07/01/25 11:54	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	166		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.4		50 - 150	92%	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
* = 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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0701W1	SDG No.:	Q2458
Lab Sample ID:	BSF0701W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031993.D	1	07/01/25 14:42	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	165		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.9		50 - 150	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0630S2	SDG No.:	Q2458
Lab Sample ID:	BSF0630S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031972.D	1	06/30/25 13:26	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	170		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.9		50 - 150	99%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0701W2	SDG No.:	Q2458
Lab Sample ID:	BSF0701W2	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031995.D	1	07/01/25 15:52	FB070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	170		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.4		50 - 150	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

CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2458

Calibration Sequence : FB062325		Test : Gasoline Range Organics	
Concentration (PPB)	**Area Count**	**Reference Factor**	**File ID**
45	1490557	33123	FB031909.D
90	2566530	28517	FB031910.D
180	5166210	28701	FB031911.D
450	12609856	28022	FB031912.D
900	27368301	30409	FB031913.D
AVG RF : 29754	**% RSD : 7.013**		**AVG RT : 8.798**

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FB031964.D Analyst Name: YP/AJ Analyst Date: 06-30-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4611565	25620	29754	13.894

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FB031973.D Analyst Name: YP/AJ Analyst Date: 06-30-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5074480	28192	29754	5.25

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FB031984.D Analyst Name: YP/AJ Analyst Date: 06-30-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5073667	28187	29754	5.267

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FB031985.D Analyst Name: YP/AJ Analyst Date: 07-01-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5120206	28446	29754	4.396

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FB031991.D Analyst Name: YP/AJ Analyst Date: 07-01-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5123628	28465	29754	4.332

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FB031996.D Analyst Name: YP/AJ Analyst Date: 07-01-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5106583	28370	29754	4.651

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** FID_B

GC Column: RTX-502.2 **ID:** 0.53 **(mm)**

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION **8.798**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	30 Jun 2025 9:27	FB031964.D	8.789	
VBF0630S1	VBF0630S1	30 Jun 2025 10:12	FB031965.D	8.796	
BSF0630S1	BSF0630S1	30 Jun 2025 11:08	FB031967.D	8.798	
BSF0630S2	BSF0630S2	30 Jun 2025 13:26	FB031972.D	8.802	
20 PPB GRO STD	20 PPB GRO STD	30 Jun 2025 13:54	FB031973.D	8.802	
TP-76	Q2458-01	30 Jun 2025 14:40	FB031974.D	8.802	
TP-55	Q2458-02	30 Jun 2025 15:08	FB031975.D	8.804	
TP-68	Q2458-03	30 Jun 2025 15:36	FB031976.D	8.803	
TP-67	Q2458-04	30 Jun 2025 16:04	FB031977.D	8.803	
TP-66	Q2458-05	30 Jun 2025 16:31	FB031978.D	8.804	
TP-60	Q2458-06	30 Jun 2025 16:59	FB031979.D	8.802	
TP-63	Q2458-08	30 Jun 2025 17:55	FB031981.D	8.804	
TP-59	Q2458-09	30 Jun 2025 18:23	FB031982.D	8.805	
20 PPB GRO STD	20 PPB GRO STD	30 Jun 2025 19:18	FB031984.D	8.805	
20 PPB GRO STD	20 PPB GRO STD	1 Jul 2025 9:31	FB031985.D	8.796	
VBF0701S1	VBF0701S1	1 Jul 2025 10:40	FB031986.D	8.799	
BSF0701S1	BSF0701S1	1 Jul 2025 11:54	FB031988.D	8.802	
TP-62	Q2458-07	1 Jul 2025 12:38	FB031989.D	8.804	
20 PPB GRO STD	20 PPB GRO STD	1 Jul 2025 13:34	FB031991.D	8.803	
VBF0701W1	VBF0701W1	1 Jul 2025 14:14	FB031992.D	8.805	
BSF0701W1	BSF0701W1	1 Jul 2025 14:42	FB031993.D	8.805	
FB-06272025	Q2458-10	1 Jul 2025 15:23	FB031994.D	8.806	
BSF0701W2	BSF0701W2	1 Jul 2025 15:52	FB031995.D	8.805	
20 PPB GRO STD	20 PPB GRO STD	1 Jul 2025 16:20	FB031996.D	8.806	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	8.698	8.898

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LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/01/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/01/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/01/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/01/25	07/02/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**			**06/27/25**
			SVOC-TCL BNA -20	8270E		07/03/25	07/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-76									
Q2458-01	TP-76	SOIL	Phenanthrene		130.000	J	23	190	ug/Kg
Q2458-01	TP-76	SOIL	Fluoranthene		380.000		33.1	190	ug/Kg
Q2458-01	TP-76	SOIL	Pyrene		390.000		39.7	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(a)anthracene		320.000		25.4	190	ug/Kg
Q2458-01	TP-76	SOIL	Chrysene		320.000		21.9	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(b)fluoranthene		450.000		20.9	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(k)fluoranthene		140.000	J	24.7	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(a)pyrene		310.000		32.5	190	ug/Kg
Q2458-01	TP-76	SOIL	Indeno(1,2,3-cd)pyrene		110.000	J	32.1	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(g,h,i)perylene		150.000	J	28.3	190	ug/Kg
			Total Svoc :		**2,700.00**				
Q2458-01	TP-76	SOIL	11H-Benzo[a]fluoren-11-one	*	130.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2458-01	TP-76	SOIL	9,10-Dimethylanthracene	*	130.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Anthracene, 1-methyl-	*	88.900	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Benzo[e]pyrene	*	250.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Benzophenone	*	210.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Fluoranthene, 2-methyl-	*	77.900	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Pyrene, 1-methyl-	*	81.200	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	unknown16.698	*	92.200	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Phenanthrene, 1-methyl-	*	250.000	J	0	0	ug/Kg
Q2458-01	TP-76	SOIL	Phenanthrene, 2,7-dimethyl-	*	85.200	J	0	0	ug/Kg
			Total Tics :		**1,615.40**				
			Total Concentration:		**4,315.40**				
Client ID : TP-55									
Q2458-02	TP-55	SOIL	Fluoranthene		190.000		32.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Pyrene		200.000		39.3	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(a)anthracene		170.000	J	25.1	190	ug/Kg
Q2458-02	TP-55	SOIL	Chrysene		140.000	J	21.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(b)fluoranthene		270.000		20.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(k)fluoranthene		98.300	J	24.4	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(a)pyrene		200.000		32.2	190	ug/Kg
Q2458-02	TP-55	SOIL	Indeno(1,2,3-cd)pyrene		93.100	J	31.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(g,h,i)perylene		130.000	J	28	190	ug/Kg
			Total Svoc :		**1,491.40**				
Q2458-02	TP-55	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2458-02	TP-55	SOIL	Benzophenone	*	210.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2458-02	TP-55	SOIL	n-Hexadecanoic acid	*	260.000	J	0	0	ug/Kg
Q2458-02	TP-55	SOIL	Trifluoroacetoxy hexadecane	*	130.000	J	0	0	ug/Kg
			Total Tics :		**810.00**				
			Total Concentration:		**2,301.40**				
Client ID :	**TP-68**								
Q2458-03	TP-68	SOIL	Phenanthrene		210.000		22.6	180	ug/Kg
Q2458-03	TP-68	SOIL	Fluoranthene		540.000		32.4	180	ug/Kg
Q2458-03	TP-68	SOIL	Pyrene		390.000		38.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(a)anthracene		340.000		24.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Chrysene		290.000		21.5	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(b)fluoranthene		440.000		20.6	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(a)pyrene		270.000		31.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Indeno(1,2,3-cd)pyrene		74.000	J	31.5	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(g,h,i)perylene		95.200	J	27.8	180	ug/Kg
			Total Svoc :		**2,649.20**				
Q2458-03	TP-68	SOIL	11H-Benzo[a]fluoren-11-one	*	82.200	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2458-03	TP-68	SOIL	4H-Cyclopenta[def]phenanthrene	*	140.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Anthracene, 1-methyl-	*	200.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Pyrene, 1-methyl-	*	76.400	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	unknown17.356	*	88.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Benzo[e]pyrene	*	190.000	J	0	0	ug/Kg
Q2458-03	TP-68	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
			Total Tics :		**1,156.60**				
			Total Concentration:		**3,805.80**				
Client ID :	**TP-67**								
Q2458-04	TP-67	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	280.000	AB	0	0	ug/Kg
Q2458-04	TP-67	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2458-04	TP-67	SOIL	Heptafluorobutyric acid, pentadec	*	210.000	J	0	0	ug/Kg
Q2458-04	TP-67	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**870.00**				
			Total Concentration:		**870.00**				
Client ID :	**TP-66**								
Q2458-05	TP-66	SOIL	Phenanthrene		120.000	J	23.6	190	ug/Kg
Q2458-05	TP-66	SOIL	Fluoranthene		620.000		33.9	190	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene		650.000		40.7	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(a)anthracene		550.000		26	190	ug/Kg
Q2458-05	TP-66	SOIL	Chrysene		570.000		22.5	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(b)fluoranthene		770.000		21.5	190	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2458-05	TP-66	SOIL	Benzo(k)fluoranthene		240.000		25.3	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(a)pyrene		540.000		33.3	190	ug/Kg
Q2458-05	TP-66	SOIL	Indeno(1,2,3-cd)pyrene		170.000	J	32.9	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(g,h,i)perylene		210.000		29	190	ug/Kg
			Total Svoc :		**4,440.00**				
Q2458-05	TP-66	SOIL	11H-Benzo[a]fluoren-11-one	*	82.900	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	11H-Benzo[b]fluorene	*	82.500	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0	0	ug/Kg
Q2458-05	TP-66	SOIL	4H-Cyclopenta[def]phenanthrene	*	130.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	6H-Benz[de]anthracen-6-one	*	110.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Anthracene, 1-methyl-	*	77.200	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benz[a]anthracene, 7-methyl-	*	130.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzo[b]naphtho[2,1-d]thiophene	*	93.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzo[e]pyrene	*	410.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 1-methyl-	*	120.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 2-methyl-	*	110.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 4-methyl-	*	81.700	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	unknown12.545	*	97.200	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Fluoranthene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Perylene	*	76.100	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Phenanthrene, 2,5-dimethyl-	*	170.000	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Phenanthrene, 3,6-dimethyl-	*	100.000	J	0	0	ug/Kg
			Total Tics :		**2,570.60**				
			Total Concentration:		**7,010.60**				
Client ID :	**TP-60**								
Q2458-06	TP-60	SOIL	Phenanthrene		150.000	J	22.6	180	ug/Kg
Q2458-06	TP-60	SOIL	Fluoranthene		750.000		32.4	180	ug/Kg
Q2458-06	TP-60	SOIL	Pyrene		460.000		38.9	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(a)anthracene		360.000		24.8	180	ug/Kg
Q2458-06	TP-60	SOIL	Chrysene		360.000		21.5	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(b)fluoranthene		590.000		20.5	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(k)fluoranthene		240.000		24.2	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(a)pyrene		400.000		31.8	180	ug/Kg
Q2458-06	TP-60	SOIL	Indeno(1,2,3-cd)pyrene		200.000		31.4	180	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(g,h,i)perylene		270.000		27.7	180	ug/Kg
			Total Svoc :		**3,780.00**				
Q2458-06	TP-60	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2458-06	TP-60	SOIL	4H-Cyclopenta[def]phenanthrene	*	100.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2458-06	TP-60	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2458-06	TP-60	SOIL	Biphenylene	*	76.300	J	0	0	ug/Kg
Q2458-06	TP-60	SOIL	Tridecane, 5-propyl-	*	75.200	J	0	0	ug/Kg
Q2458-06	TP-60	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
			Total Tics :		**991.50**				
			Total Concentration:		**4,771.50**				
Client ID :	**TP-62**								
Q2458-07	TP-62	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	190.000	AB	0	0	ug/Kg
Q2458-07	TP-62	SOIL	Benzophenone	*	160.000	J	0	0	ug/Kg
Q2458-07	TP-62	SOIL	Heptadecyl heptafluorobutyrate	*	190.000	J	0	0	ug/Kg
Q2458-07	TP-62	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
			Total Tics :		**850.00**				
			Total Concentration:		**850.00**				
Client ID :	**TP-63**								
Q2458-08	TP-63	SOIL	Phenanthrene		970.000	J	120	980	ug/Kg
Q2458-08	TP-63	SOIL	Fluoranthene		1,700.000		170	980	ug/Kg
Q2458-08	TP-63	SOIL	Pyrene		1,000.000		210	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(a)anthracene		590.000	J	130	980	ug/Kg
Q2458-08	TP-63	SOIL	Chrysene		510.000	J	110	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(b)fluoranthene		650.000	J	110	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(a)pyrene		530.000	J	170	980	ug/Kg
			Total Svoc :		**5,950.00**				
Q2458-08	TP-63	SOIL	Phenanthrene, 2-methyl-	*	400.000	J	0	0	ug/Kg
			Total Tics :		**400.00**				
			Total Concentration:		**6,350.00**				
Client ID :	**TP-59**								
Q2458-09	TP-59	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2458-09	TP-59	SOIL	Benzene, 1,1-methylenebis[2-metl	*	99.800	J	0	0	ug/Kg
Q2458-09	TP-59	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2458-09	TP-59	SOIL	Heptafluorobutyric acid, pentadec	*	280.000	J	0	0	ug/Kg
Q2458-09	TP-59	SOIL	n-Hexadecanoic acid	*	120.000	J	0	0	ug/Kg
			Total Tics :		**1,029.80**				
			Total Concentration:		**1,029.80**				
Client ID :	**FB-06272025**								
Q2458-10	FB-06272025	WATER	2,4,7,9-Tetramethyl-5-decyn-4,7-c	*	2.600	J	0	0	ug/L
Q2458-10	FB-06272025	WATER	2,4-Diethyl-6-methyl-1,3,5-trioxa	*	3.900	J	0	0	ug/L
Q2458-10	FB-06272025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.300	AB	0	0	ug/L
Q2458-10	FB-06272025	WATER	2-Propanol, 1,1-[(1-methyl-1,2-et	*	2.700	J	0	0	ug/L
			Total Tics :		**13.50**				

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Hit Summary Sheet
SW-846

SDG No.: Q2458

Client: CDM Smith

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:	**13.50**				

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.4	U	24.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.8	U	26.8	190	ug/Kg
95-57-8	2-Chlorophenol	26.9	U	26.9	190	ug/Kg
95-48-7	2-Methylphenol	33.0	U	33.0	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.3	U	41.3	190	ug/Kg
98-86-2	Acetophenone	32.5	U	32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.3	U	45.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.2	U	52.2	88.2	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.2	U	20.2	190	ug/Kg
78-59-1	Isophorone	36.2	U	36.2	190	ug/Kg
88-75-5	2-Nitrophenol	64.2	U	64.2	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.4	U	71.4	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.0	U	34.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.2	U	31.2	190	ug/Kg
91-20-3	Naphthalene	25.0	U	25.0	190	ug/Kg
106-47-8	4-Chloroaniline	39.0	U	39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.9	U	27.9	190	ug/Kg
105-60-2	Caprolactam	57.4	U	57.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.6	U	31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.2	U	28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	U	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.1	U	32.1	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.8	U	24.8	190	ug/Kg
88-74-4	2-Nitroaniline	53.0	U	53.0	190	ug/Kg
131-11-3	Dimethylphthalate	29.9	U	29.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.9	U	31.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	U	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.7	U	50.7	190	ug/Kg
83-32-9	Acenaphthene	23.5	U	23.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.2	U	55.2	190	ug/Kg
84-66-2	Diethylphthalate	31.2	U	31.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.9	U	27.9	190	ug/Kg
100-01-6	4-Nitroaniline	70.8	U	70.8	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.3	U	36.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.9	U	27.9	190	ug/Kg
1912-24-9	Atrazine	37.5	U	37.5	190	ug/Kg
87-86-5	Pentachlorophenol	56.5	U	56.5	360	ug/Kg
85-01-8	Phenanthrene	130	J	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	U	36.7	190	ug/Kg
86-74-8	Carbazole	34.4	U	34.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.8	U	52.8	190	ug/Kg
206-44-0	Fluoranthene	380		33.1	190	ug/Kg
129-00-0	Pyrene	390		39.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.7	UQ	78.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.5	U	40.5	360	ug/Kg
56-55-3	Benzo(a)anthracene	320		25.4	190	ug/Kg
218-01-9	Chrysene	320		21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.3	U	65.3	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.7	U	95.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	450		20.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	J	24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	310		32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	32.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.2	U	30.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	J	28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.2	U	28.2	190	ug/Kg
123-91-1	1,4-Dioxane	49.8	U	49.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.2	U	30.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.3		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	82.8		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.7		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.5		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.4		10 - 116	53%	SPK: 150
1718-51-0	Terphenyl-d14	37.0		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60800	6.869			
1146-65-2	Naphthalene-d8	231000	8.157			
15067-26-2	Acenaphthene-d10	119000	9.91			
1517-22-2	Phenanthrene-d10	178000	11.404			
1719-03-5	Chrysene-d12	133000	14.051			
1520-96-3	Perylene-d12	117000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.08	ug/Kg
000119-61-9	Benzophenone	210	J		10.6	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	250	J		11.9	ug/Kg
000610-48-0	Anthracene, 1-methyl-	88.9	J		12.0	ug/Kg
000781-43-1	9,10-Dimethylanthracene	130	J		12.5	ug/Kg
001576-69-8	Phenanthrene, 2,7-dimethyl-	85.2	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	81.2	J		13.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142978.D	1	07/01/25 09:30	07/02/25 18:50	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
033543-31-6	Fluoranthene, 2-methyl-	77.9	J		13.2	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	130	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	250	J		15.4	ug/Kg
	unknown16.698	92.2	J		16.7	ug/Kg

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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.1	U	24.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.5	U	26.5	190	ug/Kg
95-57-8	2-Chlorophenol	26.6	U	26.6	190	ug/Kg
95-48-7	2-Methylphenol	32.6	U	32.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.9	U	40.9	190	ug/Kg
98-86-2	Acetophenone	32.2	U	32.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	44.8	U	44.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.7	U	51.7	87.3	ug/Kg
67-72-1	Hexachloroethane	19.2	U	19.2	190	ug/Kg
98-95-3	Nitrobenzene	20.0	U	20.0	190	ug/Kg
78-59-1	Isophorone	35.8	U	35.8	190	ug/Kg
88-75-5	2-Nitrophenol	63.5	U	63.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.7	U	70.7	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.6	U	33.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	30.9	U	30.9	190	ug/Kg
91-20-3	Naphthalene	24.8	U	24.8	190	ug/Kg
106-47-8	4-Chloroaniline	38.6	U	38.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.6	U	27.6	190	ug/Kg
105-60-2	Caprolactam	56.8	U	56.8	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.3	U	31.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	27.9	U	27.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.6	U	21.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.7	U	31.7	190	ug/Kg
92-52-4	1,1-Biphenyl	23.8	U	23.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.5	U	24.5	190	ug/Kg
88-74-4	2-Nitroaniline	52.5	U	52.5	190	ug/Kg
131-11-3	Dimethylphthalate	29.6	U	29.6	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.5	U	31.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7	U	36.7	190	ug/Kg
99-09-2	3-Nitroaniline	50.2	U	50.2	190	ug/Kg
83-32-9	Acenaphthene	23.2	U	23.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.8	U	24.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.7	U	54.7	190	ug/Kg
84-66-2	Diethylphthalate	30.9	U	30.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.1	U	29.1	190	ug/Kg
86-73-7	Fluorene	27.6	U	27.6	190	ug/Kg
100-01-6	4-Nitroaniline	70.0	U	70.0	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.9	U	35.9	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.3	U	30.3	190	ug/Kg
118-74-1	Hexachlorobenzene	27.6	U	27.6	190	ug/Kg
1912-24-9	Atrazine	37.1	U	37.1	190	ug/Kg
87-86-5	Pentachlorophenol	56.0	U	56.0	360	ug/Kg
85-01-8	Phenanthrene	22.8	U	22.8	190	ug/Kg
120-12-7	Anthracene	36.3	U	36.3	190	ug/Kg
86-74-8	Carbazole	34.0	U	34.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.3	U	52.3	190	ug/Kg
206-44-0	Fluoranthene	190		32.7	190	ug/Kg
129-00-0	Pyrene	200		39.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	77.9	UQ	77.9	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.0	U	40.0	360	ug/Kg
56-55-3	Benzo(a)anthracene	170	J	25.1	190	ug/Kg
218-01-9	Chrysene	140	J	21.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.6	U	64.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	94.7	U	94.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	270		20.7	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	98.3	J	24.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	200		32.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	93.1	J	31.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.9	U	29.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	J	28.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.9	U	27.9	190	ug/Kg
123-91-1	1,4-Dioxane	49.3	U	49.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.9	U	29.9	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.6		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	76.8		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.9		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.6		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.2		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	52.0		10 - 105	52%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53300	6.869			
1146-65-2	Naphthalene-d8	185000	8.157			
15067-26-2	Acenaphthene-d10	86900	9.91			
1517-22-2	Phenanthrene-d10	146000	11.404			
1719-03-5	Chrysene-d12	91200	14.051			
1520-96-3	Perylene-d12	69800	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.08	ug/Kg
000119-61-9	Benzophenone	210	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	260	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	130	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142985.D	1	07/01/25 09:30	07/02/25 22:22	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	23.9	U	23.9	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.3	U	26.3	180	ug/Kg
95-57-8	2-Chlorophenol	26.4	U	26.4	180	ug/Kg
95-48-7	2-Methylphenol	32.3	U	32.3	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.6	U	40.6	180	ug/Kg
98-86-2	Acetophenone	31.9	U	31.9	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.5	U	44.5	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.3	U	51.3	86.5	ug/Kg
67-72-1	Hexachloroethane	19.0	U	19.0	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.5	U	35.5	180	ug/Kg
88-75-5	2-Nitrophenol	63.0	U	63.0	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.1	U	70.1	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.3	U	33.3	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.6	U	30.6	180	ug/Kg
91-20-3	Naphthalene	24.6	U	24.6	180	ug/Kg
106-47-8	4-Chloroaniline	38.3	U	38.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.4	U	27.4	180	ug/Kg
105-60-2	Caprolactam	56.4	U	56.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.0	U	31.0	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.7	U	27.7	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.4	U	21.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.5	U	31.5	180	ug/Kg
92-52-4	1,1-Biphenyl	23.6	U	23.6	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.3	U	24.3	180	ug/Kg
88-74-4	2-Nitroaniline	52.0	U	52.0	180	ug/Kg
131-11-3	Dimethylphthalate	29.3	U	29.3	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.3	U	31.3	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.3	U	36.3	180	ug/Kg
99-09-2	3-Nitroaniline	49.8	U	49.8	180	ug/Kg
83-32-9	Acenaphthene	23.0	U	23.0	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.6	U	24.6	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.2	U	54.2	180	ug/Kg
84-66-2	Diethylphthalate	30.6	U	30.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.9	U	28.9	180	ug/Kg
86-73-7	Fluorene	27.4	U	27.4	180	ug/Kg
100-01-6	4-Nitroaniline	69.4	U	69.4	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.6	U	35.6	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.1	U	30.1	180	ug/Kg
118-74-1	Hexachlorobenzene	27.4	U	27.4	180	ug/Kg
1912-24-9	Atrazine	36.8	U	36.8	180	ug/Kg
87-86-5	Pentachlorophenol	55.5	U	55.5	360	ug/Kg
85-01-8	Phenanthrene	210		22.6	180	ug/Kg
120-12-7	Anthracene	36.0	U	36.0	180	ug/Kg
86-74-8	Carbazole	33.7	U	33.7	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.8	U	51.8	180	ug/Kg
206-44-0	Fluoranthene	540		32.4	180	ug/Kg
129-00-0	Pyrene	390		38.9	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.2	UQ	77.2	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.7	U	39.7	360	ug/Kg
56-55-3	Benzo(a)anthracene	340		24.9	180	ug/Kg
218-01-9	Chrysene	290		21.5	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.0	U	64.0	180	ug/Kg
117-84-0	Di-n-octyl phthalate	93.9	U	93.9	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	440		20.6	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.2	U	24.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	270		31.9	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	74.0	J	31.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.6	U	29.6	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	95.2	J	27.8	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.7	U	27.7	180	ug/Kg
123-91-1	1,4-Dioxane	48.9	U	48.9	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.6	U	29.6	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.3		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	75.8		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.9		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.9		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.4		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	31.9		10 - 105	32%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60600	6.869			
1146-65-2	Naphthalene-d8	232000	8.157			
15067-26-2	Acenaphthene-d10	116000	9.91			
1517-22-2	Phenanthrene-d10	162000	11.404			
1719-03-5	Chrysene-d12	127000	14.051			
1520-96-3	Perylene-d12	112000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.08	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	200	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	140	J		12.0	ug/Kg
002381-21-7	Pyrene, 1-methyl-	76.4	J		13.2	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	82.2	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	190	J		15.4	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142979.D	1	07/01/25 09:30	07/02/25 19:21	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown17.356	88.0	J		17.4	ug/Kg

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.6	U	24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.1	U	27.1	190	ug/Kg
95-57-8	2-Chlorophenol	27.2	U	27.2	190	ug/Kg
95-48-7	2-Methylphenol	33.3	U	33.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.8	U	41.8	190	ug/Kg
98-86-2	Acetophenone	32.9	U	32.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.8	U	45.8	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.8	U	52.8	89.1	ug/Kg
67-72-1	Hexachloroethane	19.6	U	19.6	190	ug/Kg
98-95-3	Nitrobenzene	20.4	U	20.4	190	ug/Kg
78-59-1	Isophorone	36.5	U	36.5	190	ug/Kg
88-75-5	2-Nitrophenol	64.8	U	64.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.2	U	72.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.3	U	34.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.5	U	31.5	190	ug/Kg
91-20-3	Naphthalene	25.3	U	25.3	190	ug/Kg
106-47-8	4-Chloroaniline	39.4	U	39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.2	U	28.2	190	ug/Kg
105-60-2	Caprolactam	58.0	U	58.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.0	U	32.0	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.5	U	28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.1	U	22.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.4	U	32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	24.3	U	24.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.1	U	25.1	190	ug/Kg
88-74-4	2-Nitroaniline	53.6	U	53.6	190	ug/Kg
131-11-3	Dimethylphthalate	30.2	U	30.2	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.2	U	32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.4	U	37.4	190	ug/Kg
99-09-2	3-Nitroaniline	51.2	U	51.2	190	ug/Kg
83-32-9	Acenaphthene	23.7	U	23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.3	U	25.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.8	U	55.8	190	ug/Kg
84-66-2	Diethylphthalate	31.5	U	31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.7	U	29.7	190	ug/Kg
86-73-7	Fluorene	28.2	U	28.2	190	ug/Kg
100-01-6	4-Nitroaniline	71.5	U	71.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.7	U	36.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.0	U	31.0	190	ug/Kg
118-74-1	Hexachlorobenzene	28.2	U	28.2	190	ug/Kg
1912-24-9	Atrazine	37.9	U	37.9	190	ug/Kg
87-86-5	Pentachlorophenol	57.2	U	57.2	370	ug/Kg
85-01-8	Phenanthrene	23.3	U	23.3	190	ug/Kg
120-12-7	Anthracene	37.1	U	37.1	190	ug/Kg
86-74-8	Carbazole	34.8	U	34.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.4	U	53.4	190	ug/Kg
206-44-0	Fluoranthene	33.4	U	33.4	190	ug/Kg
129-00-0	Pyrene	40.1	U	40.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.5	UQ	79.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.9	U	40.9	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.6	U	25.6	190	ug/Kg
218-01-9	Chrysene	22.2	U	22.2	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.0	U	66.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.7	U	96.7	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.2	U	21.2	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.0	U	25.0	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.9	U	32.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.4	U	32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.5	U	30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.6	U	28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.5	U	28.5	190	ug/Kg
123-91-1	1,4-Dioxane	50.4	U	50.4	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.5	U	30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.4		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	88.6		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.7		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.9		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.1		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	57.0		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53000	6.869			
1146-65-2	Naphthalene-d8	206000	8.157			
15067-26-2	Acenaphthene-d10	108000	9.916			
1517-22-2	Phenanthrene-d10	194000	11.404			
1719-03-5	Chrysene-d12	118000	14.051			
1520-96-3	Perylene-d12	101000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	280	AB		5.08	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	210	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	TP-67			SDG No.:	Q2458
Lab Sample ID:	Q2458-04			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	89.7
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF142969.D	1	07/01/25 09:30	07/02/25 14:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	25.0	U	25.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.5	U	27.5	190	ug/Kg
95-57-8	2-Chlorophenol	27.6	U	27.6	190	ug/Kg
95-48-7	2-Methylphenol	33.8	U	33.8	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.4	U	42.4	190	ug/Kg
98-86-2	Acetophenone	33.3	U	33.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.4	U	46.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.6	U	53.6	90.4	ug/Kg
67-72-1	Hexachloroethane	19.9	U	19.9	190	ug/Kg
98-95-3	Nitrobenzene	20.7	U	20.7	190	ug/Kg
78-59-1	Isophorone	37.1	U	37.1	190	ug/Kg
88-75-5	2-Nitrophenol	65.8	U	65.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.2	U	73.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.8	U	34.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.0	U	32.0	190	ug/Kg
91-20-3	Naphthalene	25.6	U	25.6	190	ug/Kg
106-47-8	4-Chloroaniline	40.0	U	40.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.6	U	28.6	190	ug/Kg
105-60-2	Caprolactam	58.9	U	58.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.4	U	32.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.9	U	28.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.4	U	22.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.9	U	32.9	190	ug/Kg
92-52-4	1,1-Biphenyl	24.6	U	24.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.4	U	25.4	190	ug/Kg
88-74-4	2-Nitroaniline	54.3	U	54.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.6	U	30.6	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.7	U	32.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.0	U	38.0	190	ug/Kg
99-09-2	3-Nitroaniline	52.0	U	52.0	190	ug/Kg
83-32-9	Acenaphthene	24.1	U	24.1	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.6	U	25.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.6	U	56.6	190	ug/Kg
84-66-2	Diethylphthalate	32.0	U	32.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.2	U	30.2	190	ug/Kg
86-73-7	Fluorene	28.6	U	28.6	190	ug/Kg
100-01-6	4-Nitroaniline	72.5	U	72.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.2	U	37.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.4	U	31.4	190	ug/Kg
118-74-1	Hexachlorobenzene	28.6	U	28.6	190	ug/Kg
1912-24-9	Atrazine	38.4	U	38.4	190	ug/Kg
87-86-5	Pentachlorophenol	58.0	U	58.0	370	ug/Kg
85-01-8	Phenanthrene	120	J	23.6	190	ug/Kg
120-12-7	Anthracene	37.6	U	37.6	190	ug/Kg
86-74-8	Carbazole	35.3	U	35.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.1	U	54.1	190	ug/Kg
206-44-0	Fluoranthene	620		33.9	190	ug/Kg
129-00-0	Pyrene	650		40.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.7	UQ	80.7	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.5	U	41.5	370	ug/Kg
56-55-3	Benzo(a)anthracene	550		26.0	190	ug/Kg
218-01-9	Chrysene	570		22.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.9	U	66.9	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.1	U	98.1	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	770		21.5	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	240		25.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	540		33.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	J	32.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.0	U	31.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	210		29.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.9	U	28.9	190	ug/Kg
123-91-1	1,4-Dioxane	51.1	U	51.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.0	U	31.0	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	69.3		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	71.3		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.3		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.9		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	64.0		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	28.5		10 - 105	28%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55700	6.869			
1146-65-2	Naphthalene-d8	210000	8.157			
15067-26-2	Acenaphthene-d10	106000	9.91			
1517-22-2	Phenanthrene-d10	155000	11.404			
1719-03-5	Chrysene-d12	111000	14.051			
1520-96-3	Perylene-d12	102000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	200	AB		5.08	ug/Kg
000119-61-9	Benzophenone	180	J		10.6	ug/Kg
000610-48-0	Anthracene, 1-methyl-	77.2	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	160	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	130	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	170	J		12.5	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	100	J		12.5	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142977.D	1	07/01/25 09:30	07/02/25 18:20	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown12.545	97.2	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	120	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	160	J		13.2	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	82.5	J		13.2	ug/Kg
003442-78-2	Pyrene, 2-methyl-	110	J		13.3	ug/Kg
003353-12-6	Pyrene, 4-methyl-	81.7	J		13.4	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	82.9	J		13.7	ug/Kg
000239-35-0	Benzo[b]naphtho[2,1-d]thiophene	93.0	J		13.8	ug/Kg
080252-14-8	6H-Benz[de]anthracen-6-one	110	J		13.9	ug/Kg
002541-69-7	Benz[a]anthracene, 7-methyl-	130	J		14.4	ug/Kg
000198-55-0	Perylene	76.1	J		15.2	ug/Kg
000192-97-2	Benzo[e]pyrene	410	J		15.4	ug/Kg

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	23.9	U	23.9	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.2	U	26.2	180	ug/Kg
95-57-8	2-Chlorophenol	26.3	U	26.3	180	ug/Kg
95-48-7	2-Methylphenol	32.3	U	32.3	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.5	U	40.5	180	ug/Kg
98-86-2	Acetophenone	31.8	U	31.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.4	U	44.4	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.2	U	51.2	86.4	ug/Kg
67-72-1	Hexachloroethane	19.0	U	19.0	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.4	U	35.4	180	ug/Kg
88-75-5	2-Nitrophenol	62.8	U	62.8	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.0	U	70.0	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.3	U	33.3	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.6	U	30.6	180	ug/Kg
91-20-3	Naphthalene	24.5	U	24.5	180	ug/Kg
106-47-8	4-Chloroaniline	38.2	U	38.2	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.3	U	27.3	180	ug/Kg
105-60-2	Caprolactam	56.2	U	56.2	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.0	U	31.0	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.6	U	27.6	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.4	U	21.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.4	U	31.4	180	ug/Kg
92-52-4	1,1-Biphenyl	23.5	U	23.5	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.3	U	24.3	180	ug/Kg
88-74-4	2-Nitroaniline	51.9	U	51.9	180	ug/Kg
131-11-3	Dimethylphthalate	29.3	U	29.3	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.2	U	31.2	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.3	U	36.3	180	ug/Kg
99-09-2	3-Nitroaniline	49.7	U	49.7	180	ug/Kg
83-32-9	Acenaphthene	23.0	U	23.0	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.5	U	24.5	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.1	U	54.1	180	ug/Kg
84-66-2	Diethylphthalate	30.6	U	30.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.8	U	28.8	180	ug/Kg
86-73-7	Fluorene	27.3	U	27.3	180	ug/Kg
100-01-6	4-Nitroaniline	69.3	U	69.3	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.5	U	35.5	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.0	U	30.0	180	ug/Kg
118-74-1	Hexachlorobenzene	27.3	U	27.3	180	ug/Kg
1912-24-9	Atrazine	36.7	U	36.7	180	ug/Kg
87-86-5	Pentachlorophenol	55.4	U	55.4	360	ug/Kg
85-01-8	Phenanthrene	150	J	22.6	180	ug/Kg
120-12-7	Anthracene	36.0	U	36.0	180	ug/Kg
86-74-8	Carbazole	33.7	U	33.7	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.7	U	51.7	180	ug/Kg
206-44-0	Fluoranthene	750		32.4	180	ug/Kg
129-00-0	Pyrene	460		38.9	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.1	UQ	77.1	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.6	U	39.6	360	ug/Kg
56-55-3	Benzo(a)anthracene	360		24.8	180	ug/Kg
218-01-9	Chrysene	360		21.5	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	63.9	U	63.9	180	ug/Kg
117-84-0	Di-n-octyl phthalate	93.7	U	93.7	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	590		20.5	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	240		24.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	400		31.8	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200		31.4	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.6	U	29.6	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	270		27.7	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.6	U	27.6	180	ug/Kg
123-91-1	1,4-Dioxane	48.8	U	48.8	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.6	U	29.6	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.3		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	67.8		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.6		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.5		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.4		10 - 116	58%	SPK: 150
1718-51-0	Terphenyl-d14	40.3		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	40000	6.875			
1146-65-2	Naphthalene-d8	134000	8.157			
15067-26-2	Acenaphthene-d10	70300	9.91			
1517-22-2	Phenanthrene-d10	142000	11.404			
1719-03-5	Chrysene-d12	121000	14.051			
1520-96-3	Perylene-d12	87500	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.08	ug/Kg
000259-79-0	Biphenylene	76.3	J		9.78	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
055045-11-9	Tridecane, 5-propyl-	75.2	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	100	J		12.0	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142955.D	1	07/01/25 09:30	07/01/25 18:00	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.2	U	24.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.6	U	26.6	190	ug/Kg
95-57-8	2-Chlorophenol	26.7	U	26.7	190	ug/Kg
95-48-7	2-Methylphenol	32.7	U	32.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.1	U	41.1	190	ug/Kg
98-86-2	Acetophenone	32.3	U	32.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.0	U	45.0	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.9	U	51.9	87.6	ug/Kg
67-72-1	Hexachloroethane	19.3	U	19.3	190	ug/Kg
98-95-3	Nitrobenzene	20.0	U	20.0	190	ug/Kg
78-59-1	Isophorone	35.9	U	35.9	190	ug/Kg
88-75-5	2-Nitrophenol	63.7	U	63.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.9	U	70.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.7	U	33.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.0	U	31.0	190	ug/Kg
91-20-3	Naphthalene	24.9	U	24.9	190	ug/Kg
106-47-8	4-Chloroaniline	38.8	U	38.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.7	U	27.7	190	ug/Kg
105-60-2	Caprolactam	57.0	U	57.0	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.4	U	31.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.0	U	28.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.7	U	21.7	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.9	U	31.9	190	ug/Kg
92-52-4	1,1-Biphenyl	23.9	U	23.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.6	U	24.6	190	ug/Kg
88-74-4	2-Nitroaniline	52.7	U	52.7	190	ug/Kg
131-11-3	Dimethylphthalate	29.7	U	29.7	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.6	U	31.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.8	U	36.8	190	ug/Kg
99-09-2	3-Nitroaniline	50.4	U	50.4	190	ug/Kg
83-32-9	Acenaphthene	23.3	U	23.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.9	U	24.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.8	U	54.8	190	ug/Kg
84-66-2	Diethylphthalate	31.0	U	31.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.2	U	29.2	190	ug/Kg
86-73-7	Fluorene	27.7	U	27.7	190	ug/Kg
100-01-6	4-Nitroaniline	70.3	U	70.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.0	U	36.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.4	U	30.4	190	ug/Kg
118-74-1	Hexachlorobenzene	27.7	U	27.7	190	ug/Kg
1912-24-9	Atrazine	37.2	U	37.2	190	ug/Kg
87-86-5	Pentachlorophenol	56.2	U	56.2	360	ug/Kg
85-01-8	Phenanthrene	22.9	U	22.9	190	ug/Kg
120-12-7	Anthracene	36.5	U	36.5	190	ug/Kg
86-74-8	Carbazole	34.2	U	34.2	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.4	U	52.4	190	ug/Kg
206-44-0	Fluoranthene	32.8	U	32.8	190	ug/Kg
129-00-0	Pyrene	39.4	U	39.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.2	UQ	78.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.2	U	40.2	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.2	U	25.2	190	ug/Kg
218-01-9	Chrysene	21.8	U	21.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.8	U	64.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.0	U	95.0	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.8	U	20.8	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.5	U	24.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.3	U	32.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.9	U	31.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.0	U	30.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.1	U	28.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.0	U	28.0	190	ug/Kg
123-91-1	1,4-Dioxane	49.5	U	49.5	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.0	U	30.0	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	65.6		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	61.0		15 - 107	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.1		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.1		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.5		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	30.2		10 - 105	30%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	50400	6.875			
1146-65-2	Naphthalene-d8	167000	8.157			
15067-26-2	Acenaphthene-d10	75300	9.91			
1517-22-2	Phenanthrene-d10	138000	11.398			
1719-03-5	Chrysene-d12	149000	14.045			
1520-96-3	Perylene-d12	117000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB		5.08	ug/Kg
000119-61-9	Benzophenone	160	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	190	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142954.D	1	07/01/25 09:30	07/01/25 17:29	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	900	U	900	1900	ug/Kg
108-95-2	Phenol	130	U	130	980	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	980	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	980	ug/Kg
95-48-7	2-Methylphenol	170	U	170	980	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	220	U	220	980	ug/Kg
98-86-2	Acetophenone	170	U	170	980	ug/Kg
65794-96-9	3+4-Methylphenols	240	U	240	1900	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	270	U	270	460	ug/Kg
67-72-1	Hexachloroethane	100	U	100	980	ug/Kg
98-95-3	Nitrobenzene	110	U	110	980	ug/Kg
78-59-1	Isophorone	190	U	190	980	ug/Kg
88-75-5	2-Nitrophenol	340	U	340	980	ug/Kg
105-67-9	2,4-Dimethylphenol	370	U	370	980	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	180	980	ug/Kg
120-83-2	2,4-Dichlorophenol	160	U	160	980	ug/Kg
91-20-3	Naphthalene	130	U	130	980	ug/Kg
106-47-8	4-Chloroaniline	200	U	200	980	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	980	ug/Kg
105-60-2	Caprolactam	300	U	300	1900	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	170	980	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	150	980	ug/Kg
77-47-4	Hexachlorocyclopentadiene	670	U	670	1900	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	980	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	170	980	ug/Kg
92-52-4	1,1-Biphenyl	130	U	130	980	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	130	980	ug/Kg
88-74-4	2-Nitroaniline	280	U	280	980	ug/Kg
131-11-3	Dimethylphthalate	160	U	160	980	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	170	980	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	190	980	ug/Kg
99-09-2	3-Nitroaniline	270	U	270	980	ug/Kg
83-32-9	Acenaphthene	120	U	120	980	ug/Kg
51-28-5	2,4-Dinitrophenol	1300	U	1300	1900	ug/Kg
100-02-7	4-Nitrophenol	620	U	620	1900	ug/Kg
132-64-9	Dibenzofuran	130	U	130	980	ug/Kg
121-14-2	2,4-Dinitrotoluene	290	U	290	980	ug/Kg
84-66-2	Diethylphthalate	160	U	160	980	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	980	ug/Kg
86-73-7	Fluorene	150	U	150	980	ug/Kg
100-01-6	4-Nitroaniline	370	U	370	980	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	600	U	600	1900	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	190	980	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	160	980	ug/Kg
118-74-1	Hexachlorobenzene	150	U	150	980	ug/Kg
1912-24-9	Atrazine	200	U	200	980	ug/Kg
87-86-5	Pentachlorophenol	300	U	300	1900	ug/Kg
85-01-8	Phenanthrene	970	J	120	980	ug/Kg
120-12-7	Anthracene	190	U	190	980	ug/Kg
86-74-8	Carbazole	180	U	180	980	ug/Kg
84-74-2	Di-n-butylphthalate	280	U	280	980	ug/Kg
206-44-0	Fluoranthene	1700		170	980	ug/Kg
129-00-0	Pyrene	1000		210	980	ug/Kg
85-68-7	Butylbenzylphthalate	410	UQ	410	980	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	U	210	1900	ug/Kg
56-55-3	Benzo(a)anthracene	590	J	130	980	ug/Kg
218-01-9	Chrysene	510	J	110	980	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	340	U	340	980	ug/Kg
117-84-0	Di-n-octyl phthalate	500	U	500	1900	ug/Kg
205-99-2	Benzo(b)fluoranthene	650	J	110	980	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	130	980	ug/Kg
50-32-8	Benzo(a)pyrene	530	J	170	980	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	170	980	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	980	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	150	980	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	980	ug/Kg
123-91-1	1,4-Dioxane	260	U	260	980	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	160	980	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	68.4		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	62.7		15 - 107	42%	SPK: 150
4165-60-0	Nitrobenzene-d5	38.3		18 - 107	38%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.0		20 - 109	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.8		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	40.9		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	41100	6.875			
1146-65-2	Naphthalene-d8	142000	8.157			
15067-26-2	Acenaphthene-d10	76700	9.916			
1517-22-2	Phenanthrene-d10	149000	11.404			
1719-03-5	Chrysene-d12	123000	14.051			
1520-96-3	Perylene-d12	91000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
002531-84-2	Phenanthrene, 2-methyl-	400	J		11.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142959.D	5	07/01/25 09:30	07/01/25 20:03	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.8	U	28.8	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.6	U	31.6	220	ug/Kg
95-57-8	2-Chlorophenol	31.8	U	31.8	220	ug/Kg
95-48-7	2-Methylphenol	38.9	U	38.9	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.8	U	48.8	220	ug/Kg
98-86-2	Acetophenone	38.4	U	38.4	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.5	U	53.5	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	61.7	U	61.7	100	ug/Kg
67-72-1	Hexachloroethane	22.9	U	22.9	220	ug/Kg
98-95-3	Nitrobenzene	23.8	U	23.8	220	ug/Kg
78-59-1	Isophorone	42.7	U	42.7	220	ug/Kg
88-75-5	2-Nitrophenol	75.8	U	75.8	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.3	U	84.3	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.1	U	40.1	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.8	U	36.8	220	ug/Kg
91-20-3	Naphthalene	29.5	U	29.5	220	ug/Kg
106-47-8	4-Chloroaniline	46.1	U	46.1	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.9	U	32.9	220	ug/Kg
105-60-2	Caprolactam	67.8	U	67.8	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.4	U	37.4	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.3	U	33.3	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.8	U	25.8	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.9	U	37.9	220	ug/Kg
92-52-4	1,1-Biphenyl	28.4	U	28.4	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.3	U	29.3	220	ug/Kg
88-74-4	2-Nitroaniline	62.6	U	62.6	220	ug/Kg
131-11-3	Dimethylphthalate	35.3	U	35.3	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.6	U	37.6	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.7	U	43.7	220	ug/Kg
99-09-2	3-Nitroaniline	59.9	U	59.9	220	ug/Kg
83-32-9	Acenaphthene	27.7	U	27.7	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.5	U	29.5	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.2	U	65.2	220	ug/Kg
84-66-2	Diethylphthalate	36.8	U	36.8	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.8	U	34.8	220	ug/Kg
86-73-7	Fluorene	32.9	U	32.9	220	ug/Kg
100-01-6	4-Nitroaniline	83.6	U	83.6	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.8	U	42.8	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.2	U	36.2	220	ug/Kg
118-74-1	Hexachlorobenzene	32.9	U	32.9	220	ug/Kg
1912-24-9	Atrazine	44.3	U	44.3	220	ug/Kg
87-86-5	Pentachlorophenol	66.8	U	66.8	430	ug/Kg
85-01-8	Phenanthrene	27.2	U	27.2	220	ug/Kg
120-12-7	Anthracene	43.3	U	43.3	220	ug/Kg
86-74-8	Carbazole	40.6	U	40.6	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.3	U	62.3	220	ug/Kg
206-44-0	Fluoranthene	39.0	U	39.0	220	ug/Kg
129-00-0	Pyrene	46.9	U	46.9	220	ug/Kg
85-68-7	Butylbenzylphthalate	92.9	UQ	92.9	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.8	U	47.8	430	ug/Kg
56-55-3	Benzo(a)anthracene	29.9	U	29.9	220	ug/Kg
218-01-9	Chrysene	25.9	U	25.9	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	77.1	U	77.1	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.7	U	24.7	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.2	U	29.2	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.4	U	38.4	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.9	U	37.9	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.7	U	35.7	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.5	U	33.5	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.3	U	33.3	220	ug/Kg
123-91-1	1,4-Dioxane	58.8	U	58.8	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.7	U	35.7	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.4		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	78.5		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.9		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.6		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.1		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	50.6		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57900	6.869			
1146-65-2	Naphthalene-d8	223000	8.157			
15067-26-2	Acenaphthene-d10	121000	9.91			
1517-22-2	Phenanthrene-d10	212000	11.404			
1719-03-5	Chrysene-d12	120000	14.051			
1520-96-3	Perylene-d12	122000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.08	ug/Kg
000119-61-9	Benzophenone	280	J		10.6	ug/Kg
001634-74-8	Benzene, 1,1-methylenebis[2-methy	99.8	J		11.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	280	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142975.D	1	07/01/25 09:30	07/02/25 17:19	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.1	ug/L
108-95-2	Phenol	0.92	U	0.92	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.82	U	0.82	5.10	ug/L
95-57-8	2-Chlorophenol	0.59	U	0.59	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.10	ug/L
98-86-2	Acetophenone	0.75	U	0.75	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.66	U	0.66	5.10	ug/L
98-95-3	Nitrobenzene	0.77	U	0.77	5.10	ug/L
78-59-1	Isophorone	0.76	U	0.76	5.10	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.69	U	0.69	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.53	U	0.53	5.10	ug/L
91-20-3	Naphthalene	0.51	U	0.51	5.10	ug/L
106-47-8	4-Chloroaniline	0.85	U	0.85	5.10	ug/L
87-68-3	Hexachlorobutadiene	0.55	U	0.55	5.10	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.60	U	0.60	5.10	ug/L
91-57-6	2-Methylnaphthalene	0.57	U	0.57	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	U	3.70	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.52	U	0.52	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	0.63	U	0.63	5.10	ug/L
92-52-4	1,1-Biphenyl	0.54	U	0.54	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.62	U	0.62	5.10	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.10	ug/L
131-11-3	Dimethylphthalate	0.62	U	0.62	5.10	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.76	U	0.76	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	0.93	U	0.93	5.10	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.56	U	0.56	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.1	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.1	ug/L
132-64-9	Dibenzofuran	0.62	U	0.62	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.10	ug/L
84-66-2	Diethylphthalate	0.70	U	0.70	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.69	U	0.69	5.10	ug/L
86-73-7	Fluorene	0.64	U	0.64	5.10	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.59	U	0.59	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.10	ug/L
118-74-1	Hexachlorobenzene	0.53	U	0.53	5.10	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.10	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.1	ug/L
85-01-8	Phenanthrene	0.51	U	0.51	5.10	ug/L
120-12-7	Anthracene	0.62	U	0.62	5.10	ug/L
86-74-8	Carbazole	0.73	U	0.73	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.10	ug/L
206-44-0	Fluoranthene	0.83	U	0.83	5.10	ug/L
129-00-0	Pyrene	0.51	U	0.51	5.10	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	0.94	U	0.94	10.1	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.10	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.10	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.10	ug/L
50-32-8	Benzo(a)pyrene	0.56	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.60	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.68	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.70	U	0.70	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	5.10	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	U	0.73	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	65.5		23 - 138	44%	SPK: 150
13127-88-3	Phenol-d6	41.0		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.3		67 - 132	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.7		52 - 132	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		44 - 137	94%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		42 - 152	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74600	6.875			
1146-65-2	Naphthalene-d8	284000	8.157			
15067-26-2	Acenaphthene-d10	151000	9.91			
1517-22-2	Phenanthrene-d10	259000	11.404			
1719-03-5	Chrysene-d12	149000	14.051			
1520-96-3	Perylene-d12	177000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.30	AB		5.09	ug/L
001638-16-0	2-Propanol, 1,1-[(1-methyl-1,2-et	2.70	J		8.37	ug/L
117888-04-7	2,4-Diethyl-6-methyl-1,3,5-trioxan	3.90	J		8.40	ug/L
000126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-di	2.60	J		9.35	ug/L

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Report of Analysis

Client:	CDM Smith			Date Collected:	06/27/25
Project:	South River WM Replacement			Date Received:	06/27/25
Client Sample ID:	FB-06272025			SDG No.:	Q2458
Lab Sample ID:	Q2458-10			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	990	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142998.D	1	07/03/25 08:56	07/03/25 15:58	PB168716

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.: Q2458

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168674BL	PB168674BL	2-Fluorophenol	150	123	82		18	112
		Phenol-d6	150	122	81		15	107
		Nitrobenzene-d5	100	75.3	75		18	107
		2-Fluorobiphenyl	100	76.1	76		20	109
		2,4,6-Tribromophenol	150	121	81		10	116
		Terphenyl-d14	100	75.1	75		10	105
PB168674BS	PB168674BS	2-Fluorophenol	150	117	78		18	112
		Phenol-d6	150	119	79		15	107
		Nitrobenzene-d5	100	76.0	76		18	107
		2-Fluorobiphenyl	100	78.0	78		20	109
		2,4,6-Tribromophenol	150	125	83		10	116
		Terphenyl-d14	100	74.8	75		10	105
Q2458-01	TP-76	2-Fluorophenol	150	80.3	54		18	112
		Phenol-d6	150	82.8	55		15	107
		Nitrobenzene-d5	100	51.7	52		18	107
		2-Fluorobiphenyl	100	53.5	53		20	109
		2,4,6-Tribromophenol	150	79.4	53		10	116
		Terphenyl-d14	100	37.0	37		10	105
Q2458-02	TP-55	2-Fluorophenol	150	77.6	52		18	112
		Phenol-d6	150	76.8	51		15	107
		Nitrobenzene-d5	100	52.9	53		18	107
		2-Fluorobiphenyl	100	55.6	56		20	109
		2,4,6-Tribromophenol	150	82.2	55		10	116
		Terphenyl-d14	100	52.0	52		10	105
Q2458-03	TP-68	2-Fluorophenol	150	77.3	52		18	112
		Phenol-d6	150	75.8	51		15	107
		Nitrobenzene-d5	100	46.9	47		18	107
		2-Fluorobiphenyl	100	46.9	47		20	109
		2,4,6-Tribromophenol	150	67.4	45		10	116
		Terphenyl-d14	100	31.9	32		10	105
Q2458-04	TP-67	2-Fluorophenol	150	87.4	58		18	112
		Phenol-d6	150	88.6	59		15	107
		Nitrobenzene-d5	100	53.7	54		18	107
		2-Fluorobiphenyl	100	55.9	56		20	109
		2,4,6-Tribromophenol	150	94.1	63		10	116
		Terphenyl-d14	100	57.0	57		10	105
Q2458-04MS	TP-67MS	2-Fluorophenol	150	79.4	53		18	112
		Phenol-d6	150	81.1	54		15	107
		Nitrobenzene-d5	100	50.8	51		18	107
		2-Fluorobiphenyl	100	51.1	51		20	109
		2,4,6-Tribromophenol	150	89.2	59		10	116
		Terphenyl-d14	100	50.0	50		10	105
Q2458-04MSD	TP-67MSD	2-Fluorophenol	150	74.7	50		18	112
		Phenol-d6	150	76.4	51		15	107
		Nitrobenzene-d5	100	46.7	47		18	107
		2-Fluorobiphenyl	100	48.2	48		20	109
		2,4,6-Tribromophenol	150	81.8	55		10	116
		Terphenyl-d14	100	46.6	47		10	105
Q2458-05	TP-66	2-Fluorophenol	150	69.3	46		18	112
		Phenol-d6	150	71.3	48		15	107
		Nitrobenzene-d5	100	44.3	44		18	107

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Surrogate Summary

SW-846

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2458-05	TP-66	2-Fluorobiphenyl	100	41.9	42		20	109
		2,4,6-Tribromophenol	150	64.0	43		10	116
		Terphenyl-d14	100	28.5	28		10	105
Q2458-06	TP-60	2-Fluorophenol	150	73.3	49		18	112
		Phenol-d6	150	67.8	45		15	107
		Nitrobenzene-d5	100	46.6	47		18	107
		2-Fluorobiphenyl	100	46.5	47		20	109
		2,4,6-Tribromophenol	150	86.4	58		10	116
		Terphenyl-d14	100	40.3	40		10	105
Q2458-07	TP-62	2-Fluorophenol	150	65.6	44		18	112
		Phenol-d6	150	61.0	41		15	107
		Nitrobenzene-d5	100	45.1	45		18	107
		2-Fluorobiphenyl	100	48.1	48		20	109
		2,4,6-Tribromophenol	150	76.5	51		10	116
		Terphenyl-d14	100	30.2	30		10	105
Q2458-08	TP-63	2-Fluorophenol	150	68.4	46		18	112
		Phenol-d6	150	62.7	42		15	107
		Nitrobenzene-d5	100	38.3	38		18	107
		2-Fluorobiphenyl	100	40.0	40		20	109
		2,4,6-Tribromophenol	150	76.8	51		10	116
		Terphenyl-d14	100	40.9	41		10	105
Q2458-09	TP-59	2-Fluorophenol	150	77.4	52		18	112
		Phenol-d6	150	78.5	52		15	107
		Nitrobenzene-d5	100	47.9	48		18	107
		2-Fluorobiphenyl	100	48.6	49		20	109
		2,4,6-Tribromophenol	150	83.1	55		10	116
		Terphenyl-d14	100	50.6	51		10	105

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Surrogate Summary

SW-846

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168716BL	PB168716BL	2-Fluorophenol	150	129	86		23	138
		Phenol-d6	150	129	86		10	134
		Nitrobenzene-d5	100	79.8	80		67	132
		2-Fluorobiphenyl	100	78.6	79		52	132
		2,4,6-Tribromophenol	150	136	91		44	137
		Terphenyl-d14	100	88.2	88		42	152
PB168716BS	PB168716BS	2-Fluorophenol	150	128	85		23	138
		Phenol-d6	150	130	87		10	134
		Nitrobenzene-d5	100	82.0	82		67	132
		2-Fluorobiphenyl	100	82.2	82		52	132
		2,4,6-Tribromophenol	150	138	92		44	137
		Terphenyl-d14	100	87.6	88		42	152
PB168716BSD	PB168716BSD	2-Fluorophenol	150	116	77		23	138
		Phenol-d6	150	116	78		10	134
		Nitrobenzene-d5	100	74.9	75		67	132
		2-Fluorobiphenyl	100	75.5	75		52	132
		2,4,6-Tribromophenol	150	128	85		44	137
		Terphenyl-d14	100	81.6	82		42	152
Q2458-10	FB-06272025	2-Fluorophenol	150	65.5	44		23	138
		Phenol-d6	150	41.0	27		10	134
		Nitrobenzene-d5	100	88.3	88		67	132
		2-Fluorobiphenyl	100	83.7	84		52	132
		2,4,6-Tribromophenol	150	141	94		44	137
		Terphenyl-d14	100	86.4	86		42	152

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142970.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2458-04MS		**Client Sample ID: TP-67MS**									
Benzaldehyde	1900	0	1100	ug/Kg	58				10	171	
Phenol	1900	0	1700	ug/Kg	89				51	122	
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89				54	125	
2-Chlorophenol	1900	0	1700	ug/Kg	89				51	121	
2-Methylphenol	1900	0	1700	ug/Kg	89				47	125	
2,2-oxybis(1-Chloropropane)	1900	0	1600	ug/Kg	84				46	119	
Acetophenone	1900	0	1800	ug/Kg	95				55	128	
3+4-Methylphenols	1900	0	1800	ug/Kg	95				49	125	
N-Nitroso-di-n-propylamine	1900	0	1700	ug/Kg	89				59	119	
Hexachloroethane	1900	0	1700	ug/Kg	89				51	116	
Nitrobenzene	1900	0	1700	ug/Kg	89				47	124	
Isophorone	1900	0	1700	ug/Kg	89				49	127	
2-Nitrophenol	1900	0	1800	ug/Kg	95				43	131	
2,4-Dimethylphenol	1900	0	1800	ug/Kg	95				63	151	
bis(2-Chloroethoxy)methane	1900	0	1700	ug/Kg	89				51	119	
2,4-Dichlorophenol	1900	0	1800	ug/Kg	95				50	122	
Naphthalene	1900	0	1700	ug/Kg	89				51	121	
4-Chloroaniline	1900	0	670	ug/Kg	35				10	100	
Hexachlorobutadiene	1900	0	1800	ug/Kg	95				44	126	
Caprolactam	1900	0	2000	ug/Kg	105				51	134	
4-Chloro-3-methylphenol	1900	0	1800	ug/Kg	95				57	132	
2-Methylnaphthalene	1900	0	1700	ug/Kg	89				59	123	
Hexachlorocyclopentadiene	3700	0	3300	ug/Kg	89				10	175	
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95				33	141	
2,4,5-Trichlorophenol	1900	0	1700	ug/Kg	89				38	135	
1,1-Biphenyl	1900	0	1700	ug/Kg	89				55	131	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				48	124	
2-Nitroaniline	1900	0	1800	ug/Kg	95				47	134	
Dimethylphthalate	1900	0	1800	ug/Kg	95				54	120	
Acenaphthylene	1900	0	1700	ug/Kg	89				57	125	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				48	127	
3-Nitroaniline	1900	0	1000	ug/Kg	53				10	112	
Acenaphthene	1900	0	1900	ug/Kg	100				70	121	
2,4-Dinitrophenol	3700	0	3700	ug/Kg	100				10	155	
4-Nitrophenol	3700	0	3700	ug/Kg	100				10	175	
Dibenzofuran	1900	0	1800	ug/Kg	95				52	114	
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100				41	140	
Diethylphthalate	1900	0	1900	ug/Kg	100				51	119	
4-Chlorophenyl-phenylether	1900	0	1800	ug/Kg	95				48	122	
Fluorene	1900	0	1800	ug/Kg	95				53	118	
4-Nitroaniline	1900	0	1900	ug/Kg	100				29	140	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				10	160	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				73	118	
4-Bromophenyl-phenylether	1900	0	1800	ug/Kg	95				65	121	
Hexachlorobenzene	1900	0	1800	ug/Kg	95				67	118	
Atrazine	1900	0	2100	ug/Kg	111				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142970.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3700	0	3400	ug/Kg	92				13	153	
Phenanthrene	1900	0	1800	ug/Kg	95				52	128	
Anthracene	1900	0	1800	ug/Kg	95				62	124	
Carbazole	1900	0	1800	ug/Kg	95				59	119	
Di-n-butylphthalate	1900	0	2100	ug/Kg	111				55	125	
Fluoranthene	1900	0	1800	ug/Kg	95				44	125	
Pyrene	1900	0	1700	ug/Kg	89				37	122	
Butylbenzylphthalate	1900	0	2100	ug/Kg	111				44	135	
3,3-Dichlorobenzidine	1900	0	620	ug/Kg	33				15	112	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				53	119	
Chrysene	1900	0	1800	ug/Kg	95				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	1900	ug/Kg	100				42	169	
Di-n-octyl phthalate	1900	0	1500	ug/Kg	79				51	156	
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100				52	117	
Benzo(k)fluoranthene	1900	0	1900	ug/Kg	100				57	134	
Benzo(a)pyrene	1900	0	1800	ug/Kg	95				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1600	ug/Kg	84				40	129	
Dibenz(a,h)anthracene	1900	0	1600	ug/Kg	84				43	123	
Benzo(g,h,i)perylene	1900	0	1600	ug/Kg	84				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				52	134	
1,4-Dioxane	1900	0	1400	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1800	ug/Kg	95				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142971.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2458-04MSD		**Client Sample ID: TP-67MSD**									
Benzaldehyde	1900	0	1000	ug/Kg	53		9		10	171	20
Phenol	1900	0	1600	ug/Kg	84		6		51	122	20
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84		6		54	125	20
2-Chlorophenol	1900	0	1600	ug/Kg	84		6		51	121	20
2-Methylphenol	1900	0	1700	ug/Kg	89		0		47	125	20
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79		6		46	119	20
Acetophenone	1900	0	1700	ug/Kg	89		7		55	128	20
3+4-Methylphenols	1900	0	1700	ug/Kg	89		7		49	125	20
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84		6		59	119	20
Hexachloroethane	1900	0	1600	ug/Kg	84		6		51	116	20
Nitrobenzene	1900	0	1600	ug/Kg	84		6		47	124	20
Isophorone	1900	0	1600	ug/Kg	84		6		49	127	20
2-Nitrophenol	1900	0	1700	ug/Kg	89		7		43	131	20
2,4-Dimethylphenol	1900	0	1600	ug/Kg	84		12		63	151	20
bis(2-Chloroethoxy)methane	1900	0	1600	ug/Kg	84		6		51	119	20
2,4-Dichlorophenol	1900	0	1700	ug/Kg	89		7		50	122	20
Naphthalene	1900	0	1600	ug/Kg	84		6		51	121	20
4-Chloroaniline	1900	0	680	ug/Kg	36		3		10	100	20
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		12		44	126	20
Caprolactam	1900	0	1900	ug/Kg	100		5		51	134	20
4-Chloro-3-methylphenol	1900	0	1700	ug/Kg	89		7		57	132	20
2-Methylnaphthalene	1900	0	1600	ug/Kg	84		6		59	123	20
Hexachlorocyclopentadiene	3700	0	3000	ug/Kg	81		9		10	175	20
2,4,6-Trichlorophenol	1900	0	1600	ug/Kg	84		12		33	141	20
2,4,5-Trichlorophenol	1900	0	1700	ug/Kg	89		0		38	135	20
1,1-Biphenyl	1900	0	1700	ug/Kg	89		0		55	131	20
2-Chloronaphthalene	1900	0	1600	ug/Kg	84		6		48	124	20
2-Nitroaniline	1900	0	1700	ug/Kg	89		7		47	134	20
Dimethylphthalate	1900	0	1800	ug/Kg	95		0		54	120	20
Acenaphthylene	1900	0	1600	ug/Kg	84		6		57	125	20
2,6-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		48	127	20
3-Nitroaniline	1900	0	1000	ug/Kg	53		0		10	112	20
Acenaphthene	1900	0	1800	ug/Kg	95		5		70	121	20
2,4-Dinitrophenol	3700	0	3400	ug/Kg	92		8		10	155	20
4-Nitrophenol	3700	0	3600	ug/Kg	97		3		10	175	20
Dibenzofuran	1900	0	1700	ug/Kg	89		7		52	114	20
2,4-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		41	140	20
Diethylphthalate	1900	0	1800	ug/Kg	95		5		51	119	20
4-Chlorophenyl-phenylether	1900	0	1700	ug/Kg	89		7		48	122	20
Fluorene	1900	0	1700	ug/Kg	89		7		53	118	20
4-Nitroaniline	1900	0	1800	ug/Kg	95		5		29	140	20
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84		12		10	160	20
N-Nitrosodiphenylamine	1900	0	1600	ug/Kg	84		12		73	118	20
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89		7		65	121	20
Hexachlorobenzene	1900	0	1600	ug/Kg	84		12		67	118	20
Atrazine	1900	0	2000	ug/Kg	105		6		45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** SW8270E

Client: CDM Smith **DataFile:** BF142971.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3700	0	3100	ug/Kg	84		9		13	153	20
Phenanthrene	1900	0	1700	ug/Kg	89		7		52	128	20
Anthracene	1900	0	1700	ug/Kg	89		7		62	124	20
Carbazole	1900	0	1700	ug/Kg	89		7		59	119	20
Di-n-butylphthalate	1900	0	2000	ug/Kg	105		6		55	125	20
Fluoranthene	1900	0	1700	ug/Kg	89		7		44	125	20
Pyrene	1900	0	1600	ug/Kg	84		6		37	122	20
Butylbenzylphthalate	1900	0	2000	ug/Kg	105		6		44	135	20
3,3-Dichlorobenzidine	1900	0	650	ug/Kg	34		3		15	112	20
Benzo(a)anthracene	1900	0	1700	ug/Kg	89		7		53	119	20
Chrysene	1900	0	1700	ug/Kg	89		7		57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	1800	ug/Kg	95		5		42	169	20
Di-n-octyl phthalate	1900	0	1500	ug/Kg	79		0		51	156	20
Benzo(b)fluoranthene	1900	0	1800	ug/Kg	95		5		52	117	20
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95		5		57	134	20
Benzo(a)pyrene	1900	0	1700	ug/Kg	89		7		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1500	ug/Kg	79		6		40	129	20
Dibenz(a,h)anthracene	1900	0	1500	ug/Kg	79		6		43	123	20
Benzo(g,h,i)perylene	1900	0	1400	ug/Kg	74		13		24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1600	ug/Kg	84		12		52	134	20
1,4-Dioxane	1900	0	1300	ug/Kg	68		8		46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89		7		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142991.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168674BS	Benzaldehyde	1700	920	ug/Kg	54				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1500	ug/Kg	88				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				46	141	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	890	ug/Kg	52				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				60	104	
	Hexachlorocyclopentadiene	3300	2800	ug/Kg	85				45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3100	ug/Kg	94				37	128	
	4-Nitrophenol	3300	2700	ug/Kg	82				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1400	ug/Kg	82				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142991.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168674BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	2800	ug/Kg	85				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1800	ug/Kg	106		*		55	103	
	3,3-Dichlorobenzidine	1700	990	ug/Kg	58				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1900	ug/Kg	112				54	135	
	Di-n-octyl phthalate	1700	1800	ug/Kg	106				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143027.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BS	Benzaldehyde	50	26.5	ug/L	53				10	162	
	Phenol	50	43.6	ug/L	87				66	118	
	bis(2-Chloroethyl)ether	50	45.7	ug/L	91				62	103	
	2-Chlorophenol	50	45.5	ug/L	91				70	117	
	2-Methylphenol	50	46.1	ug/L	92				69	109	
	2,2-oxybis(1-Chloropropane)	50	41.7	ug/L	83				65	100	
	Acetophenone	50	46.3	ug/L	93				60	104	
	3+4-Methylphenols	50	47.7	ug/L	95				67	106	
	N-Nitroso-di-n-propylamine	50	46.1	ug/L	92				57	107	
	Hexachloroethane	50	45.2	ug/L	90				76	118	
	Nitrobenzene	50	45.3	ug/L	91				58	106	
	Isophorone	50	45.9	ug/L	92				61	102	
	2-Nitrophenol	50	48.1	ug/L	96				70	115	
	2,4-Dimethylphenol	50	45.8	ug/L	92				42	142	
	bis(2-Chloroethoxy)methane	50	45.6	ug/L	91				58	109	
	2,4-Dichlorophenol	50	46.3	ug/L	93				66	115	
	Naphthalene	50	45.8	ug/L	92				64	107	
	4-Chloroaniline	50	29.9	ug/L	60				10	85	
	Hexachlorobutadiene	50	45.4	ug/L	91				69	101	
	Caprolactam	50	52.1	ug/L	104				58	128	
	4-Chloro-3-methylphenol	50	47.8	ug/L	96				65	114	
	2-Methylnaphthalene	50	45.7	ug/L	91				64	107	
	Hexachlorocyclopentadiene	100	76.6	ug/L	77				36	160	
	2,4,6-Trichlorophenol	50	45.7	ug/L	91				61	110	
	2,4,5-Trichlorophenol	50	45.5	ug/L	91				70	106	
	1,1-Biphenyl	50	47.0	ug/L	94				72	98	
	2-Chloronaphthalene	50	46.1	ug/L	92				59	106	
	2-Nitroaniline	50	47.3	ug/L	95				73	114	
	Dimethylphthalate	50	48.7	ug/L	97				64	103	
	Acenaphthylene	50	46.5	ug/L	93				79	103	
	2,6-Dinitrotoluene	50	48.0	ug/L	96				64	110	
	3-Nitroaniline	50	33.0	ug/L	66				28	100	
	Acenaphthene	50	52.0	ug/L	104				59	113	
	2,4-Dinitrophenol	100	100	ug/L	100				36	166	
	4-Nitrophenol	100	81.5	ug/L	82				45	147	
	Dibenzofuran	50	46.5	ug/L	93				65	106	
	2,4-Dinitrotoluene	50	48.5	ug/L	97				60	115	
	Diethylphthalate	50	49.1	ug/L	98				63	105	
	4-Chlorophenyl-phenylether	50	47.9	ug/L	96				61	104	
	Fluorene	50	47.9	ug/L	96				64	107	
	4-Nitroaniline	50	47.0	ug/L	94				55	125	
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				62	132	
	N-Nitrosodiphenylamine	50	47.5	ug/L	95				61	109	
	4-Bromophenyl-phenylether	50	49.2	ug/L	98				73	103	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143027.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BS	Hexachlorobenzene	50	47.6	ug/L	95				73	106	
	Atrazine	50	52.6	ug/L	105				76	120	
	Pentachlorophenol	100	82.0	ug/L	82				47	114	
	Phenanthrene	50	47.3	ug/L	95				62	109	
	Anthracene	50	47.3	ug/L	95				65	110	
	Carbazole	50	46.7	ug/L	93				62	106	
	Di-n-butylphthalate	50	51.5	ug/L	103				64	106	
	Fluoranthene	50	46.5	ug/L	93				64	110	
	Pyrene	50	49.6	ug/L	99				71	103	
	Butylbenzylphthalate	50	53.0	ug/L	106		*		61	105	
	3,3-Dichlorobenzidine	50	25.6	ug/L	51				43	108	
	Benzo(a)anthracene	50	48.3	ug/L	97				62	107	
	Chrysene	50	46.8	ug/L	94				61	108	
	bis(2-Ethylhexyl)phthalate	50	46.6	ug/L	93				59	110	
	Di-n-octyl phthalate	50	44.6	ug/L	89				52	139	
	Benzo(b)fluoranthene	50	50.4	ug/L	101				77	113	
	Benzo(k)fluoranthene	50	43.5	ug/L	87				77	105	
	Benzo(a)pyrene	50	47.4	ug/L	95				72	131	
	Indeno(1,2,3-cd)pyrene	50	46.2	ug/L	92				72	105	
	Dibenz(a,h)anthracene	50	45.8	ug/L	92				78	115	
	Benzo(g,h,i)perylene	50	46.4	ug/L	93				75	118	
	1,2,4,5-Tetrachlorobenzene	50	46.6	ug/L	93				72	101	
	1,4-Dioxane	50	35.4	ug/L	71				38	125	
	2,3,4,6-Tetrachlorophenol	50	47.1	ug/L	94				63	116	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143028.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BSD	Benzaldehyde	50	25.9	ug/L	52	2			10	162	20
	Phenol	50	40.3	ug/L	81	8			66	118	20
	bis(2-Chloroethyl)ether	50	41.2	ug/L	82	10			62	103	20
	2-Chlorophenol	50	41.2	ug/L	82	10			70	117	20
	2-Methylphenol	50	41.4	ug/L	83	11			69	109	20
	2,2-oxybis(1-Chloropropane)	50	37.8	ug/L	76	10			65	100	20
	Acetophenone	50	42.6	ug/L	85	8			60	104	20
	3+4-Methylphenols	50	42.5	ug/L	85	12			67	106	20
	N-Nitroso-di-n-propylamine	50	41.5	ug/L	83	11			57	107	20
	Hexachloroethane	50	40.9	ug/L	82	10			76	118	20
	Nitrobenzene	50	42.3	ug/L	85	7			58	106	20
	Isophorone	50	42.4	ug/L	85	8			61	102	20
	2-Nitrophenol	50	44.2	ug/L	88	8			70	115	20
	2,4-Dimethylphenol	50	42.5	ug/L	85	7			42	142	20
	bis(2-Chloroethoxy)methane	50	42.0	ug/L	84	8			58	109	20
	2,4-Dichlorophenol	50	42.4	ug/L	85	9			66	115	20
	Naphthalene	50	42.2	ug/L	84	8			64	107	20
	4-Chloroaniline	50	37.2	ug/L	74	22		*	10	85	20
	Hexachlorobutadiene	50	42.5	ug/L	85	7			69	101	20
	Caprolactam	50	48.3	ug/L	97	8			58	128	20
	4-Chloro-3-methylphenol	50	44.3	ug/L	89	8			65	114	20
	2-Methylnaphthalene	50	42.5	ug/L	85	7			64	107	20
	Hexachlorocyclopentadiene	100	71.7	ug/L	72	7			36	160	20
	2,4,6-Trichlorophenol	50	41.4	ug/L	83	10			61	110	20
	2,4,5-Trichlorophenol	50	42.1	ug/L	84	8			70	106	20
	1,1-Biphenyl	50	42.6	ug/L	85	10			72	98	20
	2-Chloronaphthalene	50	42.1	ug/L	84	9			59	106	20
	2-Nitroaniline	50	44.5	ug/L	89	6			73	114	20
	Dimethylphthalate	50	44.8	ug/L	90	8			64	103	20
	Acenaphthylene	50	42.7	ug/L	85	9			79	103	20
	2,6-Dinitrotoluene	50	45.4	ug/L	91	6			64	110	20
	3-Nitroaniline	50	37.4	ug/L	75	13			28	100	20
	Acenaphthene	50	46.6	ug/L	93	11			59	113	20
	2,4-Dinitrophenol	100	91.4	ug/L	91	9			36	166	20
	4-Nitrophenol	100	75.8	ug/L	76	7			45	147	20
	Dibenzofuran	50	42.9	ug/L	86	8			65	106	20
	2,4-Dinitrotoluene	50	45.8	ug/L	92	6			60	115	20
	Diethylphthalate	50	45.5	ug/L	91	8			63	105	20
	4-Chlorophenyl-phenylether	50	43.7	ug/L	87	9			61	104	20
	Fluorene	50	44.1	ug/L	88	8			64	107	20
	4-Nitroaniline	50	44.5	ug/L	89	5			55	125	20
	4,6-Dinitro-2-methylphenol	50	44.8	ug/L	90	7			62	132	20
	N-Nitrosodiphenylamine	50	43.7	ug/L	87	8			61	109	20
	4-Bromophenyl-phenylether	50	45.2	ug/L	90	8			73	103	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF143028.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168716BSD	Hexachlorobenzene	50	43.8	ug/L	88	8			73	106	20
	Atrazine	50	48.4	ug/L	97	8			76	120	20
	Pentachlorophenol	100	78.4	ug/L	78	4			47	114	20
	Phenanthrene	50	43.2	ug/L	86	9			62	109	20
	Anthracene	50	43.9	ug/L	88	7			65	110	20
	Carbazole	50	44.0	ug/L	88	6			62	106	20
	Di-n-butylphthalate	50	46.8	ug/L	94	10			64	106	20
	Fluoranthene	50	43.1	ug/L	86	8			64	110	20
	Pyrene	50	46.3	ug/L	93	7			71	103	20
	Butylbenzylphthalate	50	48.4	ug/L	97	9			61	105	20
	3,3-Dichlorobenzidine	50	36.3	ug/L	73	35		*	43	108	20
	Benzo(a)anthracene	50	45.6	ug/L	91	6			62	107	20
	Chrysene	50	44.0	ug/L	88	6			61	108	20
	bis(2-Ethylhexyl)phthalate	50	44.2	ug/L	88	5			59	110	20
	Di-n-octyl phthalate	50	42.5	ug/L	85	5			52	139	20
	Benzo(b)fluoranthene	50	42.8	ug/L	86	16			77	113	20
	Benzo(k)fluoranthene	50	44.9	ug/L	90	3			77	105	20
	Benzo(a)pyrene	50	44.2	ug/L	88	7			72	131	20
	Indeno(1,2,3-cd)pyrene	50	42.5	ug/L	85	8			72	105	20
	Dibenz(a,h)anthracene	50	42.9	ug/L	86	7			78	115	20
	Benzo(g,h,i)perylene	50	42.8	ug/L	86	8			75	118	20
	1,2,4,5-Tetrachlorobenzene	50	42.9	ug/L	86	8			72	101	20
	1,4-Dioxane	50	32.4	ug/L	65	9			38	125	20
	2,3,4,6-Tetrachlorophenol	50	43.3	ug/L	87	8			63	116	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168674BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: BF142990.D | Lab Sample ID: PB168674BL

Instrument ID: BNA_F | Date Extracted: 07/01/2025

Matrix: (soil/water) SOIL | Date Analyzed: 07/03/2025

Level: (low/med) LOW | Time Analyzed: 11:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168674BS	PB168674BS	BF142991.D	07/03/2025
TP-60	Q2458-06	BF142955.D	07/01/2025
TP-62	Q2458-07	BF142954.D	07/01/2025
TP-63	Q2458-08	BF142959.D	07/01/2025
TP-76	Q2458-01	BF142978.D	07/02/2025
TP-68	Q2458-03	BF142979.D	07/02/2025
TP-55	Q2458-02	BF142985.D	07/02/2025
TP-67	Q2458-04	BF142969.D	07/02/2025
TP-67MS	Q2458-04MS	BF142970.D	07/02/2025
TP-67MSD	Q2458-04MSD	BF142971.D	07/02/2025
TP-59	Q2458-09	BF142975.D	07/02/2025
TP-66	Q2458-05	BF142977.D	07/02/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168716BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: BF143026.D | Lab Sample ID: PB168716BL

Instrument ID: BNA_F | Date Extracted: 07/03/2025

Matrix: (soil/water) Water | Date Analyzed: 07/08/2025

Level: (low/med) LOW | Time Analyzed: 11:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168716BS	PB168716BS	BF143027.D	07/08/2025
PB168716BSD	PB168716BSD	BF143028.D	07/08/2025
FB-06272025	Q2458-10	BF142998.D	07/03/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab File ID: BF142787.D | DFTPP Injection Date: 06/19/2025

Instrument ID: BNA_F | DFTPP Injection Time: 16:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	41.6
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	5.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15
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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142788.D	06/19/2025	17:07
SSTDICC005	SSTDICC005	BF142789.D	06/19/2025	17:38
SSTDICC010	SSTDICC010	BF142790.D	06/19/2025	18:08
SSTDICC020	SSTDICC020	BF142791.D	06/19/2025	18:39
SSTDICCC040	SSTDICCC040	BF142792.D	06/19/2025	19:09
SSTDICC050	SSTDICC050	BF142793.D	06/19/2025	19:40
SSTDICC060	SSTDICC060	BF142794.D	06/19/2025	20:10
SSTDICC080	SSTDICC080	BF142795.D	06/19/2025	20:40

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: BF142940.D DFTPP Injection Date: 07/01/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.2
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	27.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	38.4
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	5.6
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142941.D	07/01/2025	10:47
TP-62	Q2458-07	BF142954.D	07/01/2025	17:29
TP-60	Q2458-06	BF142955.D	07/01/2025	18:00
TP-63	Q2458-08	BF142959.D	07/01/2025	20:03

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: BF142963.D DFTPP Injection Date: 07/02/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.2
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	28.3
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	38.7
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	5.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

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

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142964.D	07/02/2025	11:41
TP-67	Q2458-04	BF142969.D	07/02/2025	14:17
TP-67MS	Q2458-04MS	BF142970.D	07/02/2025	14:47
TP-67MSD	Q2458-04MSD	BF142971.D	07/02/2025	15:17
TP-59	Q2458-09	BF142975.D	07/02/2025	17:19
TP-66	Q2458-05	BF142977.D	07/02/2025	18:20
TP-76	Q2458-01	BF142978.D	07/02/2025	18:50
TP-68	Q2458-03	BF142979.D	07/02/2025	19:21
TP-55	Q2458-02	BF142985.D	07/02/2025	22:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: BF142986.D DFTPP Injection Date: 07/03/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:25

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.1
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	28.4
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	39
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	5.4
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	3.2
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	18.8 (18.8) 2

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

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142987.D	07/03/2025	09:55
PB168674BL	PB168674BL	BF142990.D	07/03/2025	11:25
PB168674BS	PB168674BS	BF142991.D	07/03/2025	11:55
FB-06272025	Q2458-10	BF142998.D	07/03/2025	15:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2458

Lab File ID: BF143024.D DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	32.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.5
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	6
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

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

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143025.D	07/08/2025	10:54
PB168716BL	PB168716BL	BF143026.D	07/08/2025	11:24
PB168716BS	PB168716BS	BF143027.D	07/08/2025	11:54
PB168716BSD	PB168716BSD	BF143028.D	07/08/2025	12:25

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID : SSTDCCC040 Date Analyzed: 07/01/2025

Lab File ID: BF142941.D Time Analyzed: 10:47

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	52800	6.875	192179	8.16	92751	9.92
	UPPER LIMIT	105600	7.375	384358	8.657	185502	10.416
	LOWER LIMIT	26400	6.375	96089.5	7.657	46375.5	9.416
	EPA SAMPLE NO.						
01	TP-60	40048	6.88	134037	8.16	70254	9.91
02	TP-62	50422	6.88	167358	8.16	75314	9.91
03	TP-63	41136	6.88	141903	8.16	76687	9.92

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID: SSTDCCC040 Date Analyzed: 07/01/2025

Lab File ID: BF142941.D Time Analyzed: 10:47

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	139048	11.404	102522	14.051	129198	15.539
	UPPER LIMIT	278096	11.904	205044	14.551	258396	16.039
	LOWER LIMIT	69524	10.904	51261	13.551	64599	15.039
	EPA SAMPLE NO.						
01	TP-60	141628	11.40	121309	14.05	87498	15.55
02	TP-62	137885	11.40	148822	14.05	117407	15.54
03	TP-63	148921	11.40	123268	14.05	90968	15.55

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID : SSTDCCC040 Date Analyzed: 07/02/2025

Lab File ID: BF142964.D Time Analyzed: 11:41

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	58835	6.875	223613	8.16	116653	9.92
	UPPER LIMIT	117670	7.375	447226	8.657	233306	10.416
	LOWER LIMIT	29417.5	6.375	111807	7.657	58326.5	9.416
	EPA SAMPLE NO.						
01	TP-76	60838	6.87	230820	8.16	119279	9.91
02	TP-55	53273	6.87	184703	8.16	86853	9.91
03	TP-68	60603	6.87	232159	8.16	115889	9.91
04	TP-67	53005	6.87	205773	8.16	107799	9.92
05	TP-67MS	54262	6.88	204360	8.16	107674	9.92
06	TP-67MSD	56149	6.88	216831	8.16	113581	9.92
07	TP-66	55670	6.87	209987	8.16	105779	9.91
08	TP-59	57945	6.87	223063	8.16	120808	9.91

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID: SSTDCCC040 Date Analyzed: 07/02/2025

Lab File ID: BF142964.D Time Analyzed: 11:41

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	194796	11.404	118183	14.051	123997	15.545
	UPPER LIMIT	389592	11.904	236366	14.551	247994	16.045
	LOWER LIMIT	97398	10.904	59091.5	13.551	61998.5	15.045
	EPA SAMPLE NO.						
01	TP-76	177718	11.40	132715	14.05	116845	15.54
02	TP-55	146004	11.40	91233	14.05	69801	15.55
03	TP-68	161669	11.40	127172	14.05	112443	15.54
04	TP-67	193599	11.40	117849	14.05	100982	15.55
05	TP-67MS	180519	11.40	104217	14.05	110887	15.55
06	TP-67MSD	197962	11.40	113049	14.06	120474	15.55
07	TP-66	154994	11.40	110689	14.05	101919	15.54
08	TP-59	212211	11.40	120436	14.05	122074	15.54

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID : SSTDCCC040 Date Analyzed: 07/03/2025

Lab File ID: BF142987.D Time Analyzed: 09:55

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	62161	6.875	229765	8.16	116751	9.92
	UPPER LIMIT	124322	7.375	459530	8.657	233502	10.416
	LOWER LIMIT	31080.5	6.375	114883	7.657	58375.5	9.416
	EPA SAMPLE NO.						
01	PB168674BL	69300	6.88	271940	8.16	146089	9.92
02	PB168674BS	63885	6.88	241904	8.16	125461	9.92
03	FB-06272025	74550	6.88	284157	8.16	150910	9.91

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID: SSTDCCC040 Date Analyzed: 07/03/2025

Lab File ID: BF142987.D Time Analyzed: 09:55

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	185461	11.404	107728	14.051	131364	15.545
	UPPER LIMIT	370922	11.904	215456	14.551	262728	16.045
	LOWER LIMIT	92730.5	10.904	53864	13.551	65682	15.045
	EPA SAMPLE NO.						
01	PB168674BL	243571	11.40	138339	14.05	149416	15.55
02	PB168674BS	198063	11.41	112102	14.06	135188	15.55
03	FB-06272025	259289	11.40	148740	14.05	177122	15.55

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID : SSTDCCC040 Date Analyzed: 07/08/2025

Lab File ID: BF143025.D Time Analyzed: 10:54

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	66813	6.875	257725	8.16	136330	9.92
	UPPER LIMIT	133626	7.375	515450	8.663	272660	10.422
	LOWER LIMIT	33406.5	6.375	128863	7.663	68165	9.422
	EPA SAMPLE NO.						
01	PB168716BL	62899	6.88	246391	8.16	135369	9.92
02	PB168716BS	58507	6.88	224473	8.16	117882	9.92
03	PB168716BSD	60408	6.88	226362	8.16	118776	9.92

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: Alliance

Lab Code: ACE SDG NO.: Q2458

Client ID: SSTDCCC040 Date Analyzed: 07/08/2025

Lab File ID: BF143025.D Time Analyzed: 10:54

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	218169	11.41	109391	14.063	135350	15.557
	UPPER LIMIT	436338	11.91	218782	14.563	270700	16.057
	LOWER LIMIT	109085	10.91	54695.5	13.563	67675	15.057
	EPA SAMPLE NO.						
01	PB168716BL	247916	11.41	134036	14.06	119715	15.56
02	PB168716BS	196389	11.41	99574	14.06	114876	15.56
03	PB168716BSD	197115	11.41	99617	14.06	118358	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.

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BL	SDG No.:	Q2458
Lab Sample ID:	PB168674BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.0	U	52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BL	SDG No.:	Q2458
Lab Sample ID:	PB168674BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.0	U	50.0	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.1	U	64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.2	U	51.2	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.3	U	71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.1	U	59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BL	SDG No.:	Q2458
Lab Sample ID:	PB168674BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	123		18 - 112	82%	SPK: 150
13127-88-3	Phenol-d6	122		15 - 107	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.3		18 - 107	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.1		20 - 109	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	81%	SPK: 150
1718-51-0	Terphenyl-d14	75.1		10 - 105	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69300	6.875			
1146-65-2	Naphthalene-d8	272000	8.157			
15067-26-2	Acenaphthene-d10	146000	9.916			
1517-22-2	Phenanthrene-d10	244000	11.404			
1719-03-5	Chrysene-d12	138000	14.051			
1520-96-3	Perylene-d12	149000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	A		5.10	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168674BL			SDG No.:	Q2458
Lab Sample ID:	PB168674BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF142990.D	1	07/01/25 09:30	07/03/25 11:25	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BL	SDG No.:	Q2458
Lab Sample ID:	PB168716BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	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
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	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
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BL	SDG No.:	Q2458
Lab Sample ID:	PB168716BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BL	SDG No.:	Q2458
Lab Sample ID:	PB168716BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	129		23 - 138	86%	SPK: 150
13127-88-3	Phenol-d6	129		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.8		67 - 132	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.6		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	91%	SPK: 150
1718-51-0	Terphenyl-d14	88.2		42 - 152	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62900	6.875			
1146-65-2	Naphthalene-d8	246000	8.157			
15067-26-2	Acenaphthene-d10	135000	9.916			
1517-22-2	Phenanthrene-d10	248000	11.41			
1719-03-5	Chrysene-d12	134000	14.057			
1520-96-3	Perylene-d12	120000	15.556			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.40	A		5.10	ug/L
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	15.9	J		17.3	ug/L

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168716BL			SDG No.:	Q2458
Lab Sample ID:	PB168716BL			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143026.D	1	07/03/25 08:56	07/08/25 11:24	PB168716

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BS	SDG No.:	Q2458
Lab Sample ID:	PB168674BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142991.D	1	07/01/25 09:30	07/03/25 11:55	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	920		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	1400		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1500		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	890		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1500		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168674BS			SDG No.:	Q2458
Lab Sample ID:	PB168674BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF142991.D	1	07/01/25 09:30	07/03/25 11:55	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1000		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	2700	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1400		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1700		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2800	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1400		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	990		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168674BS	SDG No.:	Q2458
Lab Sample ID:	PB168674BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142991.D	1	07/01/25 09:30	07/03/25 11:55	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	117		18 - 112	78%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.0		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.0		20 - 109	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		10 - 116	83%	SPK: 150
1718-51-0	Terphenyl-d14	74.8		10 - 105	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	63900	6.875			
1146-65-2	Naphthalene-d8	242000	8.157			
15067-26-2	Acenaphthene-d10	125000	9.916			
1517-22-2	Phenanthrene-d10	198000	11.41			
1719-03-5	Chrysene-d12	112000	14.057			
1520-96-3	Perylene-d12	135000	15.545			

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BS	SDG No.:	Q2458
Lab Sample ID:	PB168716BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143027.D	1	07/03/25 08:56	07/08/25 11:54	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	26.5		3.90	10.0	ug/L
108-95-2	Phenol	43.6		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.7		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	45.5		0.58	5.00	ug/L
95-48-7	2-Methylphenol	46.1		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.7		1.30	5.00	ug/L
98-86-2	Acetophenone	46.3		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.7		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.1		1.40	2.50	ug/L
67-72-1	Hexachloroethane	45.2		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.3		0.76	5.00	ug/L
78-59-1	Isophorone	45.9		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	48.1		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	45.8		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.6		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	46.3		0.52	5.00	ug/L
91-20-3	Naphthalene	45.8		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	29.9		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.4		0.54	5.00	ug/L
105-60-2	Caprolactam	52.1		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	47.8		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.7		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	76.6		3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	45.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.5		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	47.0		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.1		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	47.3		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	48.7		0.61	5.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BS	SDG No.:	Q2458
Lab Sample ID:	PB168716BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143027.D	1	07/03/25 08:56	07/08/25 11:54	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.5		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.0		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	33.0		1.10	5.00	ug/L
83-32-9	Acenaphthene	52.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	100	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	81.5	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	46.5		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.5		1.20	5.00	ug/L
84-66-2	Diethylphthalate	49.1		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.9		0.68	5.00	ug/L
86-73-7	Fluorene	47.9		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	47.0		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	47.5		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.2		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	47.6		0.52	5.00	ug/L
1912-24-9	Atrazine	52.6		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	82.0	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	47.3		0.50	5.00	ug/L
120-12-7	Anthracene	47.3		0.61	5.00	ug/L
86-74-8	Carbazole	46.7		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.20	5.00	ug/L
206-44-0	Fluoranthene	46.5		0.82	5.00	ug/L
129-00-0	Pyrene	49.6		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.0		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	25.6		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.3		0.45	5.00	ug/L
218-01-9	Chrysene	46.8		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.6		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	44.6		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	50.4		0.49	5.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BS	SDG No.:	Q2458
Lab Sample ID:	PB168716BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143027.D	1	07/03/25 08:56	07/08/25 11:54	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.4		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.2		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.8		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.4		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.6		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	35.4		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	47.1		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		23 - 138	85%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 134	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.0		67 - 132	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.2		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		44 - 137	92%	SPK: 150
1718-51-0	Terphenyl-d14	87.6		42 - 152	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	58500	6.875			
1146-65-2	Naphthalene-d8	224000	8.163			
15067-26-2	Acenaphthene-d10	118000	9.922			
1517-22-2	Phenanthrene-d10	196000	11.41			
1719-03-5	Chrysene-d12	99600	14.063			
1520-96-3	Perylene-d12	115000	15.557			

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BSD	SDG No.:	Q2458
Lab Sample ID:	PB168716BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143028.D	1	07/03/25 08:56	07/08/25 12:25	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.9		3.90	10.0	ug/L
108-95-2	Phenol	40.3		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.2		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	41.2		0.58	5.00	ug/L
95-48-7	2-Methylphenol	41.4		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.8		1.30	5.00	ug/L
98-86-2	Acetophenone	42.6		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.5		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.5		1.40	2.50	ug/L
67-72-1	Hexachloroethane	40.9		0.65	5.00	ug/L
98-95-3	Nitrobenzene	42.3		0.76	5.00	ug/L
78-59-1	Isophorone	42.4		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	44.2		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.5		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.4		0.52	5.00	ug/L
91-20-3	Naphthalene	42.2		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	37.2		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.5		0.54	5.00	ug/L
105-60-2	Caprolactam	48.3		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.3		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	42.5		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	71.7		3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	42.1		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	42.6		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.1		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	44.5		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	44.8		0.61	5.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BSD	SDG No.:	Q2458
Lab Sample ID:	PB168716BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143028.D	1	07/03/25 08:56	07/08/25 12:25	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	42.7		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.4		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	37.4		1.10	5.00	ug/L
83-32-9	Acenaphthene	46.6		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	91.4	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	75.8		2.40	10.0	ug/L
132-64-9	Dibenzofuran	42.9		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.8		1.20	5.00	ug/L
84-66-2	Diethylphthalate	45.5		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	43.7		0.68	5.00	ug/L
86-73-7	Fluorene	44.1		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	44.5		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.8		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.7		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.2		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	43.8		0.52	5.00	ug/L
1912-24-9	Atrazine	48.4		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	78.4		1.60	10.0	ug/L
85-01-8	Phenanthrene	43.2		0.50	5.00	ug/L
120-12-7	Anthracene	43.9		0.61	5.00	ug/L
86-74-8	Carbazole	44.0		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	46.8		1.20	5.00	ug/L
206-44-0	Fluoranthene	43.1		0.82	5.00	ug/L
129-00-0	Pyrene	46.3		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	48.4		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	36.3		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.6		0.45	5.00	ug/L
218-01-9	Chrysene	44.0		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.2		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	42.5		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.8		0.49	5.00	ug/L

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168716BSD	SDG No.:	Q2458
Lab Sample ID:	PB168716BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143028.D	1	07/03/25 08:56	07/08/25 12:25	PB168716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.9		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	44.2		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.5		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.9		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.8		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	42.9		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	32.4		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.3		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		23 - 138	77%	SPK: 150
13127-88-3	Phenol-d6	116		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.9		67 - 132	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.5		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		44 - 137	85%	SPK: 150
1718-51-0	Terphenyl-d14	81.6		42 - 152	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60400	6.875			
1146-65-2	Naphthalene-d8	226000	8.157			
15067-26-2	Acenaphthene-d10	119000	9.922			
1517-22-2	Phenanthrene-d10	197000	11.41			
1719-03-5	Chrysene-d12	99600	14.057			
1520-96-3	Perylene-d12	118000	15.557			

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142970.D	1	07/01/25 09:30	07/02/25 14:47	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		170	370	ug/Kg
108-95-2	Phenol	1700		24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1700		27.1	190	ug/Kg
95-48-7	2-Methylphenol	1700		33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		41.7	190	ug/Kg
98-86-2	Acetophenone	1800		32.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1800		45.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		52.7	88.9	ug/Kg
67-72-1	Hexachloroethane	1700		19.6	190	ug/Kg
98-95-3	Nitrobenzene	1700		20.3	190	ug/Kg
78-59-1	Isophorone	1700		36.5	190	ug/Kg
88-75-5	2-Nitrophenol	1800		64.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		72.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		31.5	190	ug/Kg
91-20-3	Naphthalene	1700		25.2	190	ug/Kg
106-47-8	4-Chloroaniline	670		39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		28.1	190	ug/Kg
105-60-2	Caprolactam	2000		57.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		31.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1700		28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3300	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1800		53.5	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.1	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142970.D	1	07/01/25 09:30	07/02/25 14:47	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		37.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		51.1	190	ug/Kg
83-32-9	Acenaphthene	1900		23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	3700	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1800		25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		55.7	190	ug/Kg
84-66-2	Diethylphthalate	1900		31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		29.7	190	ug/Kg
86-73-7	Fluorene	1800		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1900		71.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		36.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		30.9	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.1	190	ug/Kg
1912-24-9	Atrazine	2100		37.8	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	57.0	370	ug/Kg
85-01-8	Phenanthrene	1800		23.2	190	ug/Kg
120-12-7	Anthracene	1800		37.0	190	ug/Kg
86-74-8	Carbazole	1800		34.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2100		53.3	190	ug/Kg
206-44-0	Fluoranthene	1800		33.4	190	ug/Kg
129-00-0	Pyrene	1700		40.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	2100		79.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	620		40.8	370	ug/Kg
56-55-3	Benzo(a)anthracene	1800		25.6	190	ug/Kg
218-01-9	Chrysene	1800		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		65.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		96.5	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.1	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142970.D	1	07/01/25 09:30	07/02/25 14:47	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		32.8	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		28.5	190	ug/Kg
123-91-1	1,4-Dioxane	1400		50.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.4		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.1		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.8		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.1		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.2		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	50.0		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54300	6.875			
1146-65-2	Naphthalene-d8	204000	8.157			
15067-26-2	Acenaphthene-d10	108000	9.916			
1517-22-2	Phenanthrene-d10	181000	11.404			
1719-03-5	Chrysene-d12	104000	14.051			
1520-96-3	Perylene-d12	111000	15.545			

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142971.D	1	07/01/25 09:30	07/02/25 15:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1000		170	370	ug/Kg
108-95-2	Phenol	1600		24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1600		27.1	190	ug/Kg
95-48-7	2-Methylphenol	1700		33.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		41.7	190	ug/Kg
98-86-2	Acetophenone	1700		32.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		45.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		52.7	89.0	ug/Kg
67-72-1	Hexachloroethane	1600		19.6	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.4	190	ug/Kg
78-59-1	Isophorone	1600		36.5	190	ug/Kg
88-75-5	2-Nitrophenol	1700		64.8	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		72.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		34.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		31.5	190	ug/Kg
91-20-3	Naphthalene	1600		25.3	190	ug/Kg
106-47-8	4-Chloroaniline	680		39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		28.1	190	ug/Kg
105-60-2	Caprolactam	1900		58.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		31.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3000	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1700		53.5	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.2	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142971.D	1	07/01/25 09:30	07/02/25 15:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		37.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		51.2	190	ug/Kg
83-32-9	Acenaphthene	1800		23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	3600	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1700		25.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		55.7	190	ug/Kg
84-66-2	Diethylphthalate	1800		31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		29.7	190	ug/Kg
86-73-7	Fluorene	1700		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1800		71.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		36.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		30.9	190	ug/Kg
118-74-1	Hexachlorobenzene	1600		28.1	190	ug/Kg
1912-24-9	Atrazine	2000		37.8	190	ug/Kg
87-86-5	Pentachlorophenol	3100	E	57.1	370	ug/Kg
85-01-8	Phenanthrene	1700		23.3	190	ug/Kg
120-12-7	Anthracene	1700		37.0	190	ug/Kg
86-74-8	Carbazole	1700		34.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2000		53.3	190	ug/Kg
206-44-0	Fluoranthene	1700		33.4	190	ug/Kg
129-00-0	Pyrene	1600		40.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	2000		79.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	650		40.8	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		25.6	190	ug/Kg
218-01-9	Chrysene	1700		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		65.9	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		96.6	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		21.1	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF142971.D	1	07/01/25 09:30	07/02/25 15:17	PB168674

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		32.8	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		28.5	190	ug/Kg
123-91-1	1,4-Dioxane	1300		50.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	74.7		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	76.4		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.7		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.2		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.8		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	46.6		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56100	6.875			
1146-65-2	Naphthalene-d8	217000	8.157			
15067-26-2	Acenaphthene-d10	114000	9.916			
1517-22-2	Phenanthrene-d10	198000	11.404			
1719-03-5	Chrysene-d12	113000	14.056			
1520-96-3	Perylene-d12	120000	15.545			

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 05:06:14 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142788.D 5 =BF142789.D 10 =BF142790.D 20 =BF142791.D 40 =BF142792.D 50 =BF142793.D 60 =BF142794.D 80 =BF1427
95.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.479	0.499	0.471	0.461	0.509	0.479	0.467	0.480	3.60
3)		Pyridine		1.190	1.195	1.190	1.164	1.303	1.209	1.181	1.205	3.78
4)		n-Nitrosodimet...			0.610	0.617	0.596	0.668	0.632	0.614	0.623	3.98
5)	S	2-Fluorophenol		2.475	2.460	2.460	2.299	2.525	2.342	2.256	2.403	4.26
6)		Aniline		1.951	1.944	1.891	1.818	1.982	1.869	1.746	1.886	4.41
7)	S	Phenol-d6		3.024	2.962	2.846	2.681	2.959	2.760	2.610	2.834	5.53
8)		2-Chlorophenol		1.362	1.303	1.292	1.245	1.366	1.272	1.231	1.296	4.08
9)		Benzaldehyde			0.988	0.943	0.757	0.832	0.684		0.841	15.02
10)	C	Phenol		1.648	1.653	1.591	1.516	1.651	1.530	1.437	1.575	5.31
11)		bis(2-Chloroet...		1.167	1.133	1.134	1.072	1.183	1.116	1.077	1.126	3.71
12)		1,3-Dichlorobe...		1.536	1.499	1.470	1.377	1.500	1.414	1.348	1.449	4.85
13)	C	1,4-Dichlorobe...		1.563	1.496	1.472	1.409	1.523	1.425	1.347	1.462	5.04
14)		1,2-Dichlorobe...		1.458	1.422	1.409	1.331	1.451	1.353	1.284	1.387	4.72
15)		Benzyl Alcohol			1.023	1.025	0.976	1.106	1.032	0.985	1.025	4.51
16)		2,2'-oxybis(1-...		1.975	1.869	1.815	1.723	1.879	1.758	1.644	1.809	6.12
17)		2-Methylphenol		1.015	0.997	0.980	0.938	1.043	0.972	0.929	0.982	4.13
18)		Hexachloroethane		0.533	0.521	0.507	0.499	0.539	0.498	0.484	0.511	3.89
19)	P	n-Nitroso-di-n...	0.831	0.879	0.840	0.833	0.787	0.847	0.812	0.766	0.824	4.30
20)		3+4-Methylphenols			1.292	1.262	1.176	1.312	1.197	1.108	1.224	6.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.464	0.451	0.459	0.418	0.461	0.428	0.406	0.441	5.28
23)	S	Nitrobenzene-d5		0.738	0.724	0.747	0.708	0.771	0.724	0.694	0.729	3.48
24)		Nitrobenzene		0.345	0.325	0.332	0.319	0.349	0.326	0.314	0.330	3.88
25)		Isophorone		0.611	0.582	0.592	0.555	0.616	0.584	0.554	0.585	4.17
26)	C	2-Nitrophenol		0.169	0.172	0.182	0.178	0.194	0.186	0.176	0.180	4.85
27)		2,4-Dimethylph...		0.322	0.310	0.318	0.300	0.329	0.307	0.294	0.311	3.99
28)		bis(2-Chloroet...		0.386	0.373	0.383	0.355	0.390	0.366	0.351	0.372	4.09
29)	C	2,4-Dichloroph...		0.291	0.280	0.290	0.273	0.298	0.277	0.268	0.282	3.77
30)		1,2,4-Trichlor...		0.324	0.316	0.318	0.299	0.324	0.301	0.292	0.310	4.26
31)		Naphthalene		1.051	1.002	1.004	0.934	1.017	0.943	0.902	0.979	5.46
32)		Benzoic acid			0.118	0.147	0.157	0.181	0.180	0.169	0.159	15.08
33)		4-Chloroaniline		0.414	0.408	0.409	0.379	0.421	0.393	0.363	0.398	5.26
34)	C	Hexachlorobuta...		0.195	0.188	0.198	0.184	0.200	0.184	0.179	0.190	4.30
35)		Caprolactam			0.073	0.075	0.072	0.081	0.078	0.069	0.075	5.84
36)	C	4-Chloro-3-met...		0.300	0.275	0.286	0.269	0.298	0.278	0.260	0.281	5.24
37)		2-Methylnaphth...		0.655	0.621	0.629	0.579	0.631	0.583	0.550	0.607	6.12
38)		1-Methylnaphth...		0.684	0.645	0.650	0.598	0.654	0.604	0.563	0.628	6.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.609	0.602	0.557	0.598	0.577	0.563	0.590	4.27
41)	P	Hexachlorocycl...		0.235	0.308	0.336	0.365	0.376	0.389	0.335	17.02
42)	S	2,4,6-Tribromo...	0.415	0.414	0.428	0.400	0.438	0.411	0.374	0.412	4.96
43)	C	2,4,6-Trichlor...	0.385	0.380	0.394	0.365	0.408	0.389	0.371	0.385	3.71
44)		2,4,5-Trichlor...	0.407	0.403	0.421	0.391	0.416	0.407	0.388	0.405	2.95
45)	S	2-Fluorobiphenyl	3.480	3.272	3.184	2.861	2.999	2.816	2.702	3.045	9.15
46)		1,1'-Biphenyl	1.701	1.616	1.637	1.505	1.609	1.525	1.466	1.580	5.27
47)		2-Chloronaphth...	1.300	1.202	1.208	1.129	1.209	1.145	1.106	1.186	5.50
48)		2-Nitroaniline	0.321	0.329	0.337	0.324	0.358	0.337	0.320	0.332	3.93
49)		Acenaphthylene	2.110	2.006	2.011	1.861	1.995	1.891	1.787	1.952	5.64
50)		Dimethylphthalate	1.372	1.334	1.330	1.228	1.335	1.277	1.186	1.295	5.17
51)		2,6-Dinitrotol...	0.297	0.279	0.290	0.277	0.294	0.284	0.268	0.284	3.57
52)	C	Acenaphthene	1.247	1.199	1.241	1.142	1.228	1.172	1.107	1.191	4.44
53)		3-Nitroaniline	0.311	0.311	0.316	0.302	0.338	0.320	0.292	0.313	4.52
54)	P	2,4-Dinitrophenol		0.095	0.129	0.142	0.173	0.163	0.152	0.142	19.61
55)		Dibenzofuran	1.844	1.772	1.763	1.626	1.752	1.660	1.537	1.708	6.13
56)	P	4-Nitrophenol		0.189	0.218	0.208	0.238	0.229	0.203	0.214	8.25
57)		2,4-Dinitrotol...	0.373	0.378	0.397	0.367	0.407	0.383	0.338	0.378	5.90
58)		Fluorene	1.464	1.412	1.395	1.260	1.362	1.260	1.183	1.334	7.58
59)		2,3,4,6-Tetrac...	0.327	0.327	0.339	0.312	0.345	0.331	0.304	0.326	4.43
60)		Diethylphthalate	1.328	1.302	1.319	1.211	1.318	1.266	1.141	1.269	5.50
61)		4-Chlorophenyl...	0.713	0.656	0.669	0.599	0.640	0.609	0.568	0.636	7.64
62)		4-Nitroaniline	0.279	0.276	0.297	0.272	0.316	0.300	0.264	0.286	6.48
63)		Azobenzene	1.215	1.149	1.167	1.081	1.176	1.122	1.032	1.134	5.47
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.119	0.119	0.134	0.130	0.125	0.121	10.04
66)	c	n-Nitrosodiphe...	0.736	0.686	0.710	0.670	0.717	0.671	0.662	0.693	4.07
67)		4-Bromophenyl-...	0.231	0.221	0.235	0.218	0.236	0.228	0.225	0.228	3.03
68)		Hexachlorobenzene	0.263	0.248	0.257	0.241	0.262	0.252	0.247	0.253	3.29
69)		Atrazine	0.176	0.172	0.180	0.174	0.195	0.183	0.174	0.179	4.48
70)	C	Pentachlorophenol		0.102	0.119	0.125	0.142	0.135	0.133	0.126	11.30
71)		Phenanthrene	1.183	1.113	1.115	1.031	1.122	1.028	0.992	1.083	6.24
72)		Anthracene	1.226	1.123	1.149	1.064	1.140	1.065	1.011	1.111	6.35
73)		Carbazole	1.040	0.986	0.999	0.900	1.002	0.920	0.866	0.959	6.67
74)		Di-n-butylphth...	0.997	1.006	1.045	0.946	1.073	0.989	0.936	0.999	4.92
75)	C	Fluoranthene	1.136	1.088	1.090	0.954	1.059	0.972	0.899	1.028	8.44
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.745	0.860	0.773	0.824	0.719	0.587	0.751	12.71
78)		Pyrene	2.110	1.940	1.968	1.742	2.030	1.863	1.468	1.875	11.43
79)	S	Terphenyl-d14	3.383	3.111	3.066	2.655	3.070	2.772	2.208	2.895	13.30
80)		Butylbenzylpht...	0.478	0.470	0.538	0.547	0.613	0.597	0.563	0.544	10.01
81)		Benzo(a)anthra...	1.392	1.358	1.366	1.265	1.403	1.376	1.284	1.349	3.98
82)		3,3'-Dichlorob...		0.398	0.440	0.429	0.476	0.445	0.438	0.438	5.73
83)		Chrysene	1.243	1.191	1.208	1.164	1.295	1.177	1.150	1.204	4.17
84)		Bis(2-ethylhex...	0.650	0.675	0.767	0.803	0.861	0.843	0.878	0.782	11.52
85)	c	Di-n-octyl pht...		1.207	1.352	1.463	1.610	1.569	1.651	1.475	11.54

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.528	1.488	1.545	1.474	1.648	1.539	1.442	1.523	4.38
88)		Benzo(b)fluora...	1.164	1.220	1.226	1.072	1.152	1.197	1.070	1.157	5.61
89)		Benzo(k)fluora...	1.206	1.004	1.035	1.037	1.193	1.038	1.068	1.083	7.55
90)	C	Benzo(a)pyrene	1.142	1.065	1.124	1.069	1.201	1.141	1.084	1.118	4.37
91)		Dibenzo(a,h)an...	1.249	1.214	1.293	1.180	1.337	1.240	1.152	1.238	5.13
92)		Benzo(g,h,i)pe...	1.239	1.198	1.266	1.188	1.332	1.255	1.161	1.234	4.66

(#) = 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: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/01/2025 10:47

Lab File ID: BF142941.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.196		-0.4	
Benzaldehyde	0.841	0.981		16.6	
Phenol-d6	1.417	1.371		-3.2	
Phenol	1.575	1.539		-2.3	20.0
bis(2-Chloroethyl)ether	1.126	1.074		-4.6	
2-Chlorophenol	1.296	1.271		-1.9	
2-Methylphenol	0.982	0.943		-4.0	
2,2-oxybis(1-Chloropropane)	1.809	1.620		-10.4	
Acetophenone	0.441	0.440		-0.2	
3+4-Methylphenols	1.224	1.200		-2.0	
n-Nitroso-di-n-propylamine	0.824	0.752	0.050	-8.7	
Nitrobenzene-d5	0.365	0.388		6.3	
Hexachloroethane	0.511	0.499		-2.3	
Nitrobenzene	0.330	0.317		-3.9	
Isophorone	0.585	0.543		-7.2	
2-Nitrophenol	0.180	0.182		1.1	20.0
2,4-Dimethylphenol	0.311	0.298		-4.2	
bis(2-Chloroethoxy)methane	0.372	0.351		-5.6	
2,4-Dichlorophenol	0.282	0.278		-1.4	20.0
Naphthalene	0.979	0.962		-1.7	
4-Chloroaniline	0.398	0.373		-6.3	
Hexachlorobutadiene	0.190	0.192		1.1	20.0
Caprolactam	0.075	0.066		-12.0	
4-Chloro-3-methylphenol	0.281	0.259		-7.8	20.0
2-Methylnaphthalene	0.607	0.581		-4.3	
Hexachlorocyclopentadiene	0.335	0.285	0.050	-14.9	
2,4,6-Trichlorophenol	0.385	0.386		0.3	20.0
2-Fluorobiphenyl	1.522	1.666		9.5	
2,4,5-Trichlorophenol	0.405	0.387		-4.4	
1,1-Biphenyl	1.580	1.580		0.0	
2-Chloronaphthalene	1.186	1.191		0.4	
2-Nitroaniline	0.332	0.310		-6.6	
Dimethylphthalate	1.295	1.215		-6.2	
Acenaphthylene	1.952	1.921		-1.6	
2,6-Dinitrotoluene	0.284	0.270		-4.9	
3-Nitroaniline	0.313	0.286		-8.6	
Acenaphthene	1.191	1.163		-2.4	20.0
2,4-Dinitrophenol	0.142	0.118	0.050	-16.9	
4-Nitrophenol	0.214	0.170	0.050	-20.6	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/01/2025 10:47

Lab File ID: BF142941.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.646		-3.6	
2,4-Dinitrotoluene	0.378	0.345		-8.7	
Diethylphthalate	1.269	1.171		-7.7	
4-Chlorophenyl-phenylether	0.636	0.605		-4.9	
Fluorene	1.334	1.252		-6.1	
4-Nitroaniline	0.286	0.264		-7.7	
4,6-Dinitro-2-methylphenol	0.121	0.115		-5.0	
n-Nitrosodiphenylamine	0.693	0.694		0.1	20.0
2,4,6-Tribromophenol	0.206	0.185		-10.2	
4-Bromophenyl-phenylether	0.228	0.233		2.2	
Hexachlorobenzene	0.253	0.254		0.4	
Atrazine	0.179	0.187		4.5	
Pentachlorophenol	0.126	0.106		-15.9	20.0
Phenanthrene	1.083	1.062		-1.9	
Anthracene	1.111	1.107		-0.4	
Carbazole	0.959	0.938		-2.2	
Di-n-butylphthalate	0.999	1.056		5.7	
Fluoranthene	1.028	1.022		-0.6	20.0
Pyrene	1.875	1.566		-16.5	
Terphenyl-d14	1.447	1.189		-17.8	
Butylbenzylphthalate	0.544	0.580		6.6	
3,3-Dichlorobenzidine	0.438	0.458		4.6	
Benzo(a)anthracene	1.349	1.288		-4.5	
Chrysene	1.204	1.192		-1.0	
Bis(2-ethylhexyl)phthalate	0.782	0.932		19.2	
Di-n-octyl phthalate	1.475	1.697		15.1	20.0
Benzo(b)fluoranthene	1.157	1.116		-3.5	
Benzo(k)fluoranthene	1.083	1.089		0.6	
Benzo(a)pyrene	1.118	1.105		-1.2	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.413		-7.2	
Dibenzo(a,h)anthracene	1.238	1.151		-7.0	
Benzo(g,h,i)perylene	1.234	1.133		-8.2	
1,2,4,5-Tetrachlorobenzene	0.590	0.606		2.7	
1,4-Dioxane	0.480	0.455		-5.2	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.292		-10.4	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/02/2025 11:41

Lab File ID: BF142964.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.175		-2.2	
Benzaldehyde	0.841	0.869		3.3	
Phenol-d6	1.417	1.364		-3.7	
Phenol	1.575	1.528		-3.0	20.0
bis(2-Chloroethyl)ether	1.126	1.072		-4.8	
2-Chlorophenol	1.296	1.252		-3.4	
2-Methylphenol	0.982	0.951		-3.2	
2,2-oxybis(1-Chloropropane)	1.809	1.643		-9.2	
Acetophenone	0.441	0.428		-2.9	
3+4-Methylphenols	1.224	1.220		-0.3	
n-Nitroso-di-n-propylamine	0.824	0.806	0.050	-2.2	
Nitrobenzene-d5	0.365	0.381		4.4	
Hexachloroethane	0.511	0.505		-1.2	
Nitrobenzene	0.330	0.320		-3.0	
Isophorone	0.585	0.565		-3.4	
2-Nitrophenol	0.180	0.179		-0.6	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.372	0.360		-3.2	
2,4-Dichlorophenol	0.282	0.275		-2.5	20.0
Naphthalene	0.979	0.947		-3.3	
4-Chloroaniline	0.398	0.390		-2.0	
Hexachlorobutadiene	0.190	0.186		-2.1	20.0
Caprolactam	0.075	0.075		0.0	
4-Chloro-3-methylphenol	0.281	0.275		-2.1	20.0
2-Methylnaphthalene	0.607	0.601		-1.0	
Hexachlorocyclopentadiene	0.335	0.265	0.050	-20.9	
2,4,6-Trichlorophenol	0.385	0.371		-3.6	20.0
2-Fluorobiphenyl	1.522	1.598		5.0	
2,4,5-Trichlorophenol	0.405	0.391		-3.5	
1,1-Biphenyl	1.580	1.544		-2.3	
2-Chloronaphthalene	1.186	1.140		-3.9	
2-Nitroaniline	0.332	0.326		-1.8	
Dimethylphthalate	1.295	1.269		-2.0	
Acenaphthylene	1.952	1.901		-2.6	
2,6-Dinitrotoluene	0.284	0.284		0.0	
3-Nitroaniline	0.313	0.313		0.0	
Acenaphthene	1.191	1.162		-2.4	20.0
2,4-Dinitrophenol	0.142	0.122	0.050	-14.1	
4-Nitrophenol	0.214	0.246	0.050	15.0	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/02/2025 11:41

Lab File ID: BF142964.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.651		-3.3	
2,4-Dinitrotoluene	0.378	0.373		-1.3	
Diethylphthalate	1.269	1.281		0.9	
4-Chlorophenyl-phenylether	0.636	0.631		-0.8	
Fluorene	1.334	1.313		-1.6	
4-Nitroaniline	0.286	0.291		1.7	
4,6-Dinitro-2-methylphenol	0.121	0.113		-6.6	
n-Nitrosodiphenylamine	0.693	0.673		-2.9	20.0
2,4,6-Tribromophenol	0.206	0.203		-1.5	
4-Bromophenyl-phenylether	0.228	0.223		-2.2	
Hexachlorobenzene	0.253	0.240		-5.1	
Atrazine	0.179	0.188		5.0	
Pentachlorophenol	0.126	0.112		-11.1	20.0
Phenanthrene	1.083	1.038		-4.2	
Anthracene	1.111	1.071		-3.6	
Carbazole	0.959	0.921		-4.0	
Di-n-butylphthalate	0.999	1.051		5.2	
Fluoranthene	1.028	0.992		-3.5	20.0
Pyrene	1.875	1.887		0.6	
Terphenyl-d14	1.447	1.366		-5.6	
Butylbenzylphthalate	0.544	0.594		9.2	
3,3-Dichlorobenzidine	0.438	0.424		-3.2	
Benzo(a)anthracene	1.349	1.348		-0.1	
Chrysene	1.204	1.123		-6.7	
Bis(2-ethylhexyl)phthalate	0.782	0.847		8.3	
Di-n-octyl phthalate	1.475	1.461		-0.9	20.0
Benzo(b)fluoranthene	1.157	1.268		9.6	
Benzo(k)fluoranthene	1.083	1.006		-7.1	
Benzo(a)pyrene	1.118	1.116		-0.2	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.408		-7.6	
Dibenzo(a,h)anthracene	1.238	1.141		-7.8	
Benzo(g,h,i)perylene	1.234	1.137		-7.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.588		-0.3	
1,4-Dioxane	0.480	0.432		-10.0	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.315		-3.4	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/03/2025 09:55

Lab File ID: BF142987.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.155		-3.8	
Benzaldehyde	0.841	0.872		3.7	
Phenol-d6	1.417	1.350		-4.7	
Phenol	1.575	1.488		-5.5	20.0
bis(2-Chloroethyl)ether	1.126	1.068		-5.2	
2-Chlorophenol	1.296	1.258		-2.9	
2-Methylphenol	0.982	0.942		-4.1	
2,2-oxybis(1-Chloropropane)	1.809	1.607		-11.2	
Acetophenone	0.441	0.435		-1.4	
3+4-Methylphenols	1.224	1.205		-1.6	
n-Nitroso-di-n-propylamine	0.824	0.783	0.050	-5.0	
Nitrobenzene-d5	0.365	0.383		4.9	
Hexachloroethane	0.511	0.494		-3.3	
Nitrobenzene	0.330	0.319		-3.3	
Isophorone	0.585	0.556		-5.0	
2-Nitrophenol	0.180	0.181		0.6	20.0
2,4-Dimethylphenol	0.311	0.288		-7.4	
bis(2-Chloroethoxy)methane	0.372	0.360		-3.2	
2,4-Dichlorophenol	0.282	0.274		-2.8	20.0
Naphthalene	0.979	0.960		-1.9	
4-Chloroaniline	0.398	0.386		-3.0	
Hexachlorobutadiene	0.190	0.191		0.5	20.0
Caprolactam	0.075	0.071		-5.3	
4-Chloro-3-methylphenol	0.281	0.270		-3.9	20.0
2-Methylnaphthalene	0.607	0.585		-3.6	
Hexachlorocyclopentadiene	0.335	0.268	0.050	-20.0	
2,4,6-Trichlorophenol	0.385	0.379		-1.6	20.0
2-Fluorobiphenyl	1.522	1.626		6.8	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.580	1.566		-0.9	
2-Chloronaphthalene	1.186	1.170		-1.3	
2-Nitroaniline	0.332	0.323		-2.7	
Dimethylphthalate	1.295	1.278		-1.3	
Acenaphthylene	1.952	1.899		-2.7	
2,6-Dinitrotoluene	0.284	0.278		-2.1	
3-Nitroaniline	0.313	0.303		-3.2	
Acenaphthene	1.191	1.172		-1.6	20.0
2,4-Dinitrophenol	0.142	0.131	0.050	-7.7	
4-Nitrophenol	0.214	0.226	0.050	5.6	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/03/2025 09:55

Lab File ID: BF142987.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.633		-4.4	
2,4-Dinitrotoluene	0.378	0.365		-3.4	
Diethylphthalate	1.269	1.256		-1.0	
4-Chlorophenyl-phenylether	0.636	0.627		-1.4	
Fluorene	1.334	1.318		-1.2	
4-Nitroaniline	0.286	0.271		-5.2	
4,6-Dinitro-2-methylphenol	0.121	0.117		-3.3	
n-Nitrosodiphenylamine	0.693	0.695		0.3	20.0
2,4,6-Tribromophenol	0.206	0.200		-2.9	
4-Bromophenyl-phenylether	0.228	0.231		1.3	
Hexachlorobenzene	0.253	0.247		-2.4	
Atrazine	0.179	0.189		5.6	
Pentachlorophenol	0.126	0.112		-11.1	20.0
Phenanthrene	1.083	1.056		-2.5	
Anthracene	1.111	1.095		-1.4	
Carbazole	0.959	0.918		-4.3	
Di-n-butylphthalate	0.999	1.042		4.3	
Fluoranthene	1.028	0.963		-6.3	20.0
Pyrene	1.875	1.861		-0.7	
Terphenyl-d14	1.447	1.388		-4.1	
Butylbenzylphthalate	0.544	0.616		13.2	
3,3-Dichlorobenzidine	0.438	0.467		6.6	
Benzo(a)anthracene	1.349	1.360		0.8	
Chrysene	1.204	1.153		-4.2	
Bis(2-ethylhexyl)phthalate	0.782	0.921		17.8	
Di-n-octyl phthalate	1.475	1.699		15.2	20.0
Benzo(b)fluoranthene	1.157	1.162		0.4	
Benzo(k)fluoranthene	1.083	1.015		-6.3	
Benzo(a)pyrene	1.118	1.091		-2.4	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.412		-7.3	
Dibenzo(a,h)anthracene	1.238	1.144		-7.6	
Benzo(g,h,i)perylene	1.234	1.104		-10.5	
1,2,4,5-Tetrachlorobenzene	0.590	0.594		0.7	
1,4-Dioxane	0.480	0.430		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.310		-4.9	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.183		-1.5	
Benzaldehyde	0.841	0.903		7.4	
Phenol-d6	1.417	1.384		-2.3	
Phenol	1.575	1.550		-1.6	20.0
bis(2-Chloroethyl)ether	1.126	1.102		-2.1	
2-Chlorophenol	1.296	1.276		-1.5	
2-Methylphenol	0.982	0.973		-0.9	
2,2-oxybis(1-Chloropropane)	1.809	1.645		-9.1	
Acetophenone	0.441	0.431		-2.3	
3+4-Methylphenols	1.224	1.225		0.1	
n-Nitroso-di-n-propylamine	0.824	0.805	0.050	-2.3	
Nitrobenzene-d5	0.365	0.385		5.5	
Hexachloroethane	0.511	0.498		-2.5	
Nitrobenzene	0.330	0.315		-4.5	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.181		0.6	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.372	0.361		-3.0	
2,4-Dichlorophenol	0.282	0.275		-2.5	20.0
Naphthalene	0.979	0.952		-2.8	
4-Chloroaniline	0.398	0.391		-1.8	
Hexachlorobutadiene	0.190	0.185		-2.6	20.0
Caprolactam	0.075	0.078		4.0	
4-Chloro-3-methylphenol	0.281	0.276		-1.8	20.0
2-Methylnaphthalene	0.607	0.594		-2.1	
Hexachlorocyclopentadiene	0.335	0.341	0.050	1.8	
2,4,6-Trichlorophenol	0.385	0.367		-4.7	20.0
2-Fluorobiphenyl	1.522	1.552		2.0	
2,4,5-Trichlorophenol	0.405	0.383		-5.4	
1,1-Biphenyl	1.580	1.507		-4.6	
2-Chloronaphthalene	1.186	1.125		-5.1	
2-Nitroaniline	0.332	0.326		-1.8	
Dimethylphthalate	1.295	1.287		-0.6	
Acenaphthylene	1.952	1.854		-5.0	
2,6-Dinitrotoluene	0.284	0.279		-1.8	
3-Nitroaniline	0.313	0.304		-2.9	
Acenaphthene	1.191	1.180		-0.9	20.0
2,4-Dinitrophenol	0.142	0.188	0.050	32.4	
4-Nitrophenol	0.214	0.259	0.050	21.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2458

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 17:07 20:40

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.634		-4.3	
2,4-Dinitrotoluene	0.378	0.376		-0.5	
Diethylphthalate	1.269	1.241		-2.2	
4-Chlorophenyl-phenylether	0.636	0.623		-2.0	
Fluorene	1.334	1.302		-2.4	
4-Nitroaniline	0.286	0.282		-1.4	
4,6-Dinitro-2-methylphenol	0.121	0.120		-0.8	
n-Nitrosodiphenylamine	0.693	0.683		-1.4	20.0
2,4,6-Tribromophenol	0.206	0.200		-2.9	
4-Bromophenyl-phenylether	0.228	0.230		0.9	
Hexachlorobenzene	0.253	0.251		-0.8	
Atrazine	0.179	0.189		5.6	
Pentachlorophenol	0.126	0.185		46.8	20.0
Phenanthrene	1.083	1.051		-3.0	
Anthracene	1.111	1.089		-2.0	
Carbazole	0.959	0.908		-5.3	
Di-n-butylphthalate	0.999	1.022		2.3	
Fluoranthene	1.028	0.959		-6.7	20.0
Pyrene	1.875	2.136		13.9	
Terphenyl-d14	1.447	1.536		6.2	
Butylbenzylphthalate	0.544	0.573		5.3	
3,3-Dichlorobenzidine	0.438	0.444		1.4	
Benzo(a)anthracene	1.349	1.310		-2.9	
Chrysene	1.204	1.161		-3.6	
Bis(2-ethylhexyl)phthalate	0.782	0.775		-0.9	
Di-n-octyl phthalate	1.475	1.479		0.3	20.0
Benzo(b)fluoranthene	1.157	1.133		-2.1	
Benzo(k)fluoranthene	1.083	0.990		-8.6	
Benzo(a)pyrene	1.118	1.090		-2.5	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.509		-0.9	
Dibenzo(a,h)anthracene	1.238	1.206		-2.6	
Benzo(g,h,i)perylene	1.234	1.198		-2.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.574		-2.7	
1,4-Dioxane	0.480	0.434		-9.6	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.307		-5.8	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	

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LAB CHRONICLE

Q2458-06	**TP-60**	**SOIL**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25 07/02/25	
			Diesel Range Organics	8015D		07/02/25 07/03/25	
			Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A		07/01/25 07/01/25	
			Pesticide-TCL	8081B		07/01/25 07/01/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**		**06/27/25**
			Gasoline Range Organics	8015D		07/01/25	
			PCB	8082A		07/01/25 07/01/25	
			Pesticide-TCL	8081B		07/01/25 07/01/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**		**06/27/25**
			Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A		07/01/25 07/01/25	
			Pesticide-TCL	8081B		07/01/25 07/01/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**		**06/27/25**
			Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A		07/01/25 07/02/25	
			Pesticide-TCL	8081B		07/01/25 07/01/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25 07/02/25	
			Gasoline Range Organics	8015D		07/01/25	
			PCB	8082A		07/02/25 07/02/25	
			Pesticide-TCL	8081B		07/03/25 07/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TP-76**							
Q2458-01	TP-76	SOIL	Dieldrin	1.90	P	0.15	1.90	ug/kg
Q2458-01	TP-76	SOIL	Endrin	0.66	J	0.15	1.90	ug/kg
Q2458-01	TP-76	SOIL	4,4-DDT	1.20	JP	0.15	1.90	ug/kg
			Total Concentration:	**3.760**				
Client ID :	**TP-67**							
Q2458-04	TP-67	SOIL	4,4-DDE	0.34	JP	0.16	1.90	ug/kg
Q2458-04	TP-67	SOIL	alpha-Chlordane	0.48	JP	0.13	1.90	ug/kg
Q2458-04	TP-67	SOIL	gamma-Chlordane	0.29	J	0.17	1.90	ug/kg
			Total Concentration:	**1.110**				
Client ID :	**TP-66**							
Q2458-05	TP-66	SOIL	4,4-DDT	0.40	JP	0.16	1.90	ug/kg
			Total Concentration:	**0.400**				
Client ID :	**TP-60**							
Q2458-06	TP-60	SOIL	4,4-DDD	0.17	J	0.16	1.80	ug/kg
Q2458-06	TP-60	SOIL	4,4-DDT	0.36	JP	0.15	1.80	ug/kg
Q2458-06	TP-60	SOIL	alpha-Chlordane	0.90	JP	0.13	1.80	ug/kg
Q2458-06	TP-60	SOIL	gamma-Chlordane	0.46	J	0.16	1.80	ug/kg
			Total Concentration:	**1.890**				
Client ID :	**TP-62**							
Q2458-07	TP-62	SOIL	Heptachlor	0.17	J	0.13	1.90	ug/kg
			Total Concentration:	**0.170**				
Client ID :	**TP-63**							
Q2458-08	TP-63	SOIL	4,4-DDD	0.41	J	0.17	2.00	ug/kg
Q2458-08	TP-63	SOIL	4,4-DDT	0.44	JP	0.16	2.00	ug/kg
Q2458-08	TP-63	SOIL	alpha-Chlordane	0.58	J	0.14	2.00	ug/kg
Q2458-08	TP-63	SOIL	gamma-Chlordane	0.40	J	0.17	2.00	ug/kg
			Total Concentration:	**1.830**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089284.D	1	07/01/25 08:30	07/01/25 18:26	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.43	U	0.43	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.90	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.90	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.90	ug/kg
60-57-1	Dieldrin	1.90	P	0.15	1.90	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.90	ug/kg
72-20-8	Endrin	0.66	J	0.15	1.90	ug/kg
33213-65-9	Endosulfan II	0.32	U	0.32	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	1.20	JP	0.15	1.90	ug/kg
72-43-5	Methoxychlor	0.41	U	0.41	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.41	U	0.41	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.00	U	6.00	36.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.9		20 - 144	70%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.8		19 - 148	89%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089284.D	1	07/01/25 08:30	07/01/25 18:26	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089285.D	1	07/01/25 08:30	07/01/25 18:40	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.43	U	0.43	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.90	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.90	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.90	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.90	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.90	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.90	ug/kg
33213-65-9	Endosulfan II	0.32	U	0.32	1.90	ug/kg
72-54-8	4,4-DDD	0.16	U	0.16	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.15	U	0.15	1.90	ug/kg
72-43-5	Methoxychlor	0.40	U	0.40	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.40	U	0.40	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.16	U	0.16	1.90	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	9.41		20 - 144	47%	SPK: 20
877-09-8	Tetrachloro-m-xylene	11.8		19 - 148	59%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089285.D	1	07/01/25 08:30	07/01/25 18:40	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089286.D	1	07/01/25 08:30	07/01/25 18:53	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.80	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.80	ug/kg
319-86-8	delta-BHC	0.42	U	0.42	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.80	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.80	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.80	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.80	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.80	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.80	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.80	ug/kg
33213-65-9	Endosulfan II	0.31	U	0.31	1.80	ug/kg
72-54-8	4,4-DDD	0.16	U	0.16	1.80	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.80	ug/kg
50-29-3	4,4-DDT	0.15	U	0.15	1.80	ug/kg
72-43-5	Methoxychlor	0.40	U	0.40	1.80	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.40	U	0.40	1.80	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	1.80	ug/kg
5103-74-2	gamma-Chlordane	0.16	U	0.16	1.80	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	35.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.1		20 - 144	66%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		19 - 148	89%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089286.D	1	07/01/25 08:30	07/01/25 18:53	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089290.D	1	07/01/25 08:30	07/01/25 20:15	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.43	U	0.43	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.90	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.34	JP	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.32	U	0.32	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.41	U	0.41	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.41	U	0.41	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.48	JP	0.13	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.29	J	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.00	U	6.00	36.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.0		20 - 144	75%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		19 - 148	100%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089290.D	1	07/01/25 08:30	07/01/25 20:15	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089293.D	1	07/01/25 08:30	07/01/25 20:57	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.40	JP	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.6		20 - 144	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.6		19 - 148	63%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089293.D	1	07/01/25 08:30	07/01/25 20:57	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.5 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089294.D	1	07/01/25 08:30	07/01/25 21:10	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.80	ug/kg
319-85-7	beta-BHC	0.19	U	0.19	1.80	ug/kg
319-86-8	delta-BHC	0.42	U	0.42	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.80	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.80	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.80	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.80	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.80	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.80	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.80	ug/kg
33213-65-9	Endosulfan II	0.31	U	0.31	1.80	ug/kg
72-54-8	4,4-DDD	0.17	J	0.16	1.80	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.80	ug/kg
50-29-3	4,4-DDT	0.36	JP	0.15	1.80	ug/kg
72-43-5	Methoxychlor	0.40	U	0.40	1.80	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.40	U	0.40	1.80	ug/kg
5103-71-9	alpha-Chlordane	0.90	JP	0.13	1.80	ug/kg
5103-74-2	gamma-Chlordane	0.46	J	0.16	1.80	ug/kg
8001-35-2	Toxaphene	5.80	U	5.80	35.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.6		20 - 144	58%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.7		19 - 148	68%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.5 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089294.D	1	07/01/25 08:30	07/01/25 21:10	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	91.1 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089295.D	1	07/01/25 08:30	07/01/25 21:24	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.43	U	0.43	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.90	ug/kg
76-44-8	Heptachlor	0.17	J	0.13	1.90	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.90	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.90	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.90	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.90	ug/kg
33213-65-9	Endosulfan II	0.32	U	0.32	1.90	ug/kg
72-54-8	4,4-DDD	0.16	U	0.16	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.15	U	0.15	1.90	ug/kg
72-43-5	Methoxychlor	0.41	U	0.41	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.41	U	0.41	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.16	U	0.16	1.90	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	36.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.5		20 - 144	62%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.6		19 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	91.1 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089295.D	1	07/01/25 08:30	07/01/25 21:24	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089296.D	1	07/01/25 08:30	07/01/25 21:37	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	2.00	ug/kg
72-54-8	4,4-DDD	0.41	J	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.44	JP	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.58	J	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.40	J	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	38.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.2		20 - 144	51%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.7		19 - 148	64%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089296.D	1	07/01/25 08:30	07/01/25 21:37	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.6 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089297.D	1	07/01/25 08:30	07/01/25 21:51	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.17	U	0.17	2.20	ug/kg
319-85-7	beta-BHC	0.23	U	0.23	2.20	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	0.18	U	0.18	2.20	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.20	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.20	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	2.20	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.18	U	0.18	2.20	ug/kg
72-55-9	4,4-DDE	0.18	U	0.18	2.20	ug/kg
72-20-8	Endrin	0.18	U	0.18	2.20	ug/kg
33213-65-9	Endosulfan II	0.38	U	0.38	2.20	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	0.17	U	0.17	2.20	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	2.20	ug/kg
72-43-5	Methoxychlor	0.48	U	0.48	2.20	ug/kg
53494-70-5	Endrin ketone	0.25	U	0.25	2.20	ug/kg
7421-93-4	Endrin aldehyde	0.48	U	0.48	2.20	ug/kg
5103-71-9	alpha-Chlordane	0.16	U	0.16	2.20	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.20	ug/kg
8001-35-2	Toxaphene	7.10	U	7.10	43.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.9		20 - 144	65%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.0		19 - 148	95%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.6 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089297.D	1	07/01/25 08:30	07/01/25 21:51	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089332.D	1	07/03/25 08:58	07/03/25 14:40	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0040	U	0.0040	0.051	ug/L
319-85-7	beta-BHC	0.0050	U	0.0050	0.051	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.051	ug/L
58-89-9	gamma-BHC (Lindane)	0.0038	U	0.0038	0.051	ug/L
76-44-8	Heptachlor	0.0028	U	0.0028	0.051	ug/L
309-00-2	Aldrin	0.0037	U	0.0037	0.051	ug/L
1024-57-3	Heptachlor epoxide	0.0098	U	0.0098	0.051	ug/L
959-98-8	Endosulfan I	0.0032	U	0.0032	0.051	ug/L
60-57-1	Dieldrin	0.0037	U	0.0037	0.051	ug/L
72-55-9	4,4-DDE	0.0038	U	0.0038	0.051	ug/L
72-20-8	Endrin	0.0033	U	0.0033	0.051	ug/L
33213-65-9	Endosulfan II	0.0081	U	0.0081	0.051	ug/L
72-54-8	4,4-DDD	0.0072	U	0.0072	0.051	ug/L
1031-07-8	Endosulfan Sulfate	0.0038	U	0.0038	0.051	ug/L
50-29-3	4,4-DDT	0.0036	U	0.0036	0.051	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.051	ug/L
53494-70-5	Endrin ketone	0.0095	U	0.0095	0.051	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.051	ug/L
5103-71-9	alpha-Chlordane	0.0036	U	0.0036	0.051	ug/L
5103-74-2	gamma-Chlordane	0.0040	U	0.0040	0.051	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.7		57 - 171	69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		61 - 148	105%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089332.D	1	07/03/25 08:58	07/03/25 14:40	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

QC SUMMARY

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PD088990.D	PIBLK-PD088990.D	Decachlorobiphen	1	20	18.2	91		57	171
		Tetrachloro-m-xyl	1	20	16.1	80		61	148
		Decachlorobiphen	2	20	18.6	93		57	171
		Tetrachloro-m-xyl	2	20	17.7	88		61	148
I.BLK-PD089264.D	PIBLK-PD089264.D	Decachlorobiphen	1	20	22.9	115		57	171
		Tetrachloro-m-xyl	1	20	20.6	103		61	148
		Decachlorobiphen	2	20	23.3	117		57	171
		Tetrachloro-m-xyl	2	20	22.7	114		61	148
PB168672BL	PB168672BL	Decachlorobiphen	1	20	16.9	85		20	144
		Tetrachloro-m-xyl	1	20	16.9	84		19	148
		Decachlorobiphen	2	20	17.3	87		20	144
		Tetrachloro-m-xyl	2	20	20.0	100		19	148
PB168672BS	PB168672BS	Decachlorobiphen	1	20	20.6	103		20	144
		Tetrachloro-m-xyl	1	20	18.3	92		19	148
		Decachlorobiphen	2	20	19.5	98		20	144
		Tetrachloro-m-xyl	2	20	20.8	104		19	148
I.BLK-PD089276.D	PIBLK-PD089276.D	Decachlorobiphen	1	20	23.0	115		57	171
		Tetrachloro-m-xyl	1	20	20.9	105		61	148
		Decachlorobiphen	2	20	22.4	112		57	171
		Tetrachloro-m-xyl	2	20	23.2	116		61	148
Q2458-01	TP-76	Decachlorobiphen	1	20	13.9	70		20	144
		Tetrachloro-m-xyl	1	20	16.5	83		19	148
		Decachlorobiphen	2	20	13.1	66		20	144
		Tetrachloro-m-xyl	2	20	17.8	89		19	148
Q2458-02	TP-55	Decachlorobiphen	1	20	9.41	47		20	144
		Tetrachloro-m-xyl	1	20	11.0	55		19	148
		Decachlorobiphen	2	20	7.45	37		20	144
		Tetrachloro-m-xyl	2	20	11.8	59		19	148
Q2458-03	TP-68	Decachlorobiphen	1	20	13.1	66		20	144
		Tetrachloro-m-xyl	1	20	16.2	81		19	148
		Decachlorobiphen	2	20	10.9	55		20	144
		Tetrachloro-m-xyl	2	20	17.9	89		19	148
I.BLK-PD089287.D	PIBLK-PD089287.D	Decachlorobiphen	1	20	22.1	110		57	171
		Tetrachloro-m-xyl	1	20	21.0	105		61	148
		Decachlorobiphen	2	20	20.1	100		57	171
		Tetrachloro-m-xyl	2	20	23.4	117		61	148
Q2458-04	TP-67	Decachlorobiphen	1	20	14.9	75		20	144
		Tetrachloro-m-xyl	1	20	19.1	95		19	148
		Decachlorobiphen	2	20	15.0	75		20	144
		Tetrachloro-m-xyl	2	20	20.0	100		19	148
Q2458-04MS	TP-67MS	Decachlorobiphen	1	20	16.3	82		20	144

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
Q2458-04MS	TP-67MS	Tetrachloro-m-xyl	1	20	19.5	98		19	148
		Decachlorobiphen	2	20	16.5	82		20	144
		Tetrachloro-m-xyl	2	20	21.3	107		19	148
Q2458-04MSD	TP-67MSD	Decachlorobiphen	1	20	16.2	81		20	144
		Tetrachloro-m-xyl	1	20	19.7	98		19	148
		Decachlorobiphen	2	20	16.6	83		20	144
		Tetrachloro-m-xyl	2	20	21.6	108		19	148
Q2458-05	TP-66	Decachlorobiphen	1	20	10.6	53		20	144
		Tetrachloro-m-xyl	1	20	11.6	58		19	148
		Decachlorobiphen	2	20	10.4	52		20	144
		Tetrachloro-m-xyl	2	20	12.6	63		19	148
Q2458-06	TP-60	Decachlorobiphen	1	20	11.6	58		20	144
		Tetrachloro-m-xyl	1	20	12.4	62		19	148
		Decachlorobiphen	2	20	7.43	37		20	144
		Tetrachloro-m-xyl	2	20	13.7	68		19	148
Q2458-07	TP-62	Decachlorobiphen	1	20	12.5	62		20	144
		Tetrachloro-m-xyl	1	20	15.8	79		19	148
		Decachlorobiphen	2	20	10.5	52		20	144
		Tetrachloro-m-xyl	2	20	17.6	88		19	148
Q2458-08	TP-63	Decachlorobiphen	1	20	10.2	51		20	144
		Tetrachloro-m-xyl	1	20	11.6	58		19	148
		Decachlorobiphen	2	20	7.67	38		20	144
		Tetrachloro-m-xyl	2	20	12.7	64		19	148
Q2458-09	TP-59	Decachlorobiphen	1	20	12.9	65		20	144
		Tetrachloro-m-xyl	1	20	17.6	88		19	148
		Decachlorobiphen	2	20	11.4	57		20	144
		Tetrachloro-m-xyl	2	20	19.0	95		19	148
I.BLK-PD089298.D	PIBLK-PD089298.D	Decachlorobiphen	1	20	21.1	106		57	171
		Tetrachloro-m-xyl	1	20	21.6	108		61	148
		Decachlorobiphen	2	20	18.2	91		57	171
		Tetrachloro-m-xyl	2	20	24.2	121		61	148
I.BLK-PD089326.D	PIBLK-PD089326.D	Decachlorobiphen	1	20	19.1	96		57	171
		Tetrachloro-m-xyl	1	20	19.5	97		61	148
		Decachlorobiphen	2	20	18.0	90		57	171
		Tetrachloro-m-xyl	2	20	21.9	109		61	148
PB168718BL	PB168718BL	Decachlorobiphen	1	20	18.8	94		57	171
		Tetrachloro-m-xyl	1	20	18.2	91		61	148
		Decachlorobiphen	2	20	19.0	95		57	171
		Tetrachloro-m-xyl	2	20	20.4	102		61	148
PB168718BS	PB168718BS	Decachlorobiphen	1	20	18.6	93		57	171
		Tetrachloro-m-xyl	1	20	17.7	89		61	148

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
PB168718BS	PB168718BS	Decachlorobiphen	2	20	18.9	95		57	171
		Tetrachloro-m-xyl	2	20	20.7	103		61	148
PB168718BSD	PB168718BSD	Decachlorobiphen	1	20	18.4	92		57	171
		Tetrachloro-m-xyl	1	20	17.6	88		61	148
		Decachlorobiphen	2	20	19.0	95		57	171
		Tetrachloro-m-xyl	2	20	20.7	104		61	148
Q2458-10	FB-06272025	Decachlorobiphen	1	20	13.2	66		57	171
		Tetrachloro-m-xyl	1	20	18.5	93		61	148
		Decachlorobiphen	2	20	13.7	69		57	171
		Tetrachloro-m-xyl	2	20	21.0	105		61	148
I.BLK-PD089337.D	PIBLK-PD089337.D	Decachlorobiphen	1	20	19.0	95		57	171
		Tetrachloro-m-xyl	1	20	19.8	99		61	148
		Decachlorobiphen	2	20	19.1	95		57	171
		Tetrachloro-m-xyl	2	20	22.4	112		61	148

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089291.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2458-04MS (Column 1)**	**Client Sample ID:**		**TP-67MS**								
	alpha-BHC	18.56	0	17.7	ug/kg	95				60	144	
	beta-BHC	18.56	0	17.3	ug/kg	93				54	143	
	delta-BHC	18.56	0	17.9	ug/kg	96				29	151	
	gamma-BHC (Lindane)	18.56	0	17.5	ug/kg	94				61	140	
	Heptachlor	18.56	0	16.5	ug/kg	89				63	135	
	Aldrin	18.56	0	18.0	ug/kg	97				49	139	
	Heptachlor epoxide	18.56	0	17.6	ug/kg	95				41	156	
	Endosulfan I	18.56	0	17.8	ug/kg	96				56	142	
	Dieldrin	18.56	0	17.6	ug/kg	95				47	161	
	4,4'-DDE	18.56	0.21	18.0	ug/kg	95				55	136	
	Endrin	18.56	0	16.6	ug/kg	89				57	139	
	Endosulfan II	18.56	0	17.1	ug/kg	92				40	163	
	4,4'-DDD	18.56	0	18.4	ug/kg	99				47	163	
	Endosulfan sulfate	18.56	0	16.4	ug/kg	88				62	139	
	4,4'-DDT	18.56	0	14.0	ug/kg	75				51	146	
	Methoxychlor	18.56	0	13.4	ug/kg	72				54	136	
	Endrin ketone	18.56	0	17.2	ug/kg	93				60	129	
	Endrin aldehyde	18.56	0	16.8	ug/kg	91				59	132	
	alpha-Chlordane	18.56	0.48	18.0	ug/kg	94				39	166	
	gamma-Chlordane	18.56	0.29	18.2	ug/kg	97				44	175	
Lab Sample ID:	**Q2458-04MS (Column 2)**	**Client Sample ID:**		**TP-67MS**								
	alpha-BHC	18.56	0	17.7	ug/kg	95				60	144	
	beta-BHC	18.56	0	17.6	ug/kg	95				54	143	
	delta-BHC	18.56	0	16.9	ug/kg	91				29	151	
	gamma-BHC (Lindane)	18.56	0	17.5	ug/kg	94				61	140	
	Heptachlor	18.56	0	16.3	ug/kg	88				63	135	
	Aldrin	18.56	0	17.9	ug/kg	96				49	139	
	Heptachlor epoxide	18.56	0	18.2	ug/kg	98				41	156	
	Endosulfan I	18.56	0	17.6	ug/kg	95				56	142	
	Dieldrin	18.56	0	17.7	ug/kg	95				47	161	
	4,4'-DDE	18.56	0.34	17.9	ug/kg	96				55	136	
	Endrin	18.56	0	16.9	ug/kg	91				57	139	
	Endosulfan II	18.56	0	17.2	ug/kg	93				40	163	
	4,4'-DDD	18.56	0	17.0	ug/kg	92				47	163	
	Endosulfan sulfate	18.56	0	16.1	ug/kg	87				62	139	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089291.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,4'-DDT	18.56	0	14.2	ug/kg	77				51	146	
Methoxychlor	18.56	0	13.3	ug/kg	72				54	136	
Endrin ketone	18.56	0	16.3	ug/kg	88				60	129	
Endrin aldehyde	18.56	0	16.6	ug/kg	89				59	132	
alpha-Chlordane	18.56	0.29	17.9	ug/kg	96				39	166	
gamma-Chlordane	18.56	0.23	18.3	ug/kg	99				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089292.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2458-04MSD (Column 1)**	**Client Sample ID:**		**TP-67MSD**								
	alpha-BHC	18.54	0	18.2	ug/kg	98		3		60	144	20
	beta-BHC	18.54	0	17.4	ug/kg	94		1		54	143	20
	delta-BHC	18.54	0	19.0	ug/kg	102		6		29	151	20
	gamma-BHC (Lindane)	18.54	0	18.2	ug/kg	98		4		61	140	20
	Heptachlor	18.54	0	16.9	ug/kg	91		2		63	135	20
	Aldrin	18.54	0	18.2	ug/kg	98		1		49	139	20
	Heptachlor epoxide	18.54	0	17.7	ug/kg	95		0		41	156	20
	Endosulfan I	18.54	0	17.9	ug/kg	97		1		56	142	20
	Dieldrin	18.54	0	17.8	ug/kg	96		1		47	161	20
	4,4'-DDE	18.54	0.21	18.0	ug/kg	95		0		55	136	20
	Endrin	18.54	0	16.9	ug/kg	91		2		57	139	20
	Endosulfan II	18.54	0	17.3	ug/kg	93		1		40	163	20
	4,4'-DDD	18.54	0	19.0	ug/kg	102		3		47	163	20
	Endosulfan sulfate	18.54	0	17.1	ug/kg	92		4		62	139	20
	4,4'-DDT	18.54	0	14.7	ug/kg	79		5		51	146	20
	Methoxychlor	18.54	0	13.8	ug/kg	74		3		54	136	20
	Endrin ketone	18.54	0	17.7	ug/kg	95		2		60	129	20
	Endrin aldehyde	18.54	0	17.3	ug/kg	93		2		59	132	20
	alpha-Chlordane	18.54	0.48	18.2	ug/kg	96		2		39	166	20
	gamma-Chlordane	18.54	0.29	18.2	ug/kg	98		1		44	175	20
Lab Sample ID:	**Q2458-04MSD (Column 2)**	**Client Sample ID:**		**TP-67MSD**								
	alpha-BHC	18.54	0	18.1	ug/kg	98		3		60	144	20
	beta-BHC	18.54	0	17.9	ug/kg	97		2		54	143	20
	delta-BHC	18.54	0	17.8	ug/kg	96		5		29	151	20
	gamma-BHC (Lindane)	18.54	0	18.0	ug/kg	97		3		61	140	20
	Heptachlor	18.54	0	16.8	ug/kg	91		3		63	135	20
	Aldrin	18.54	0	18.1	ug/kg	98		2		49	139	20
	Heptachlor epoxide	18.54	0	18.3	ug/kg	99		1		41	156	20
	Endosulfan I	18.54	0	17.9	ug/kg	97		2		56	142	20
	Dieldrin	18.54	0	17.9	ug/kg	97		2		47	161	20
	4,4'-DDE	18.54	0.34	17.9	ug/kg	97		1		55	136	20
	Endrin	18.54	0	17.2	ug/kg	93		2		57	139	20
	Endosulfan II	18.54	0	17.4	ug/kg	94		1		40	163	20
	4,4'-DDD	18.54	0	17.4	ug/kg	94		2		47	163	20
	Endosulfan sulfate	18.54	0	16.9	ug/kg	91		4		62	139	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089292.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,4'-DDT	18.54	0	15.0	ug/kg	81		5		51	146	20
Methoxychlor	18.54	0	14.2	ug/kg	77		7		54	136	20
Endrin ketone	18.54	0	17.0	ug/kg	92		4		60	129	20
Endrin aldehyde	18.54	0	17.2	ug/kg	93		4		59	132	20
alpha-Chlordane	18.54	0.29	18.0	ug/kg	97		1		39	166	20
gamma-Chlordane	18.54	0.23	18.4	ug/kg	99		0		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD089275.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168672BS (Column 1)	alpha-BHC	16.65	18.7	ug/kg	112				84	123	
	beta-BHC	16.65	17.7	ug/kg	106				82	123	
	delta-BHC	16.65	19.2	ug/kg	115				83	126	
	gamma-BHC (Lindane)	16.65	18.6	ug/kg	112				83	125	
	Heptachlor	16.65	18.2	ug/kg	109				83	122	
	Aldrin	16.65	18.7	ug/kg	112				82	124	
	Heptachlor epoxide	16.65	18.0	ug/kg	108				83	120	
	Endosulfan I	16.65	18.3	ug/kg	110				81	124	
	Dieldrin	16.65	18.4	ug/kg	111				85	121	
	4,4'-DDE	16.65	18.4	ug/kg	111				81	123	
	Endrin	16.65	16.5	ug/kg	99				76	130	
	Endosulfan II	16.65	17.9	ug/kg	108				80	125	
	4,4'-DDD	16.65	18.7	ug/kg	112				80	131	
	Endosulfan sulfate	16.65	17.7	ug/kg	106				81	122	
	4,4'-DDT	16.65	16.3	ug/kg	98				70	129	
	Methoxychlor	16.65	16.3	ug/kg	98				60	119	
	Endrin ketone	16.65	18.3	ug/kg	110				77	132	
	Endrin aldehyde	16.65	17.8	ug/kg	107				79	124	
	alpha-Chlordane	16.65	18.1	ug/kg	109				84	120	
	gamma-Chlordane	16.65	18.5	ug/kg	111				83	122	
PB168672BS (Column 2)	alpha-BHC	16.65	18.6	ug/kg	112				84	123	
	beta-BHC	16.65	18.0	ug/kg	108				82	123	
	delta-BHC	16.65	18.3	ug/kg	110				83	126	
	gamma-BHC (Lindane)	16.65	18.4	ug/kg	111				83	125	
	Heptachlor	16.65	17.6	ug/kg	106				83	122	
	Aldrin	16.65	18.4	ug/kg	111				82	124	
	Heptachlor epoxide	16.65	19.3	ug/kg	116				83	120	
	Endosulfan I	16.65	18.4	ug/kg	111				81	124	
	Dieldrin	16.65	18.0	ug/kg	108				85	121	
	4,4'-DDE	16.65	17.9	ug/kg	108				81	123	
	Endrin	16.65	16.5	ug/kg	99				76	130	
	Endosulfan II	16.65	17.8	ug/kg	107				80	125	
	4,4'-DDD	16.65	17.9	ug/kg	108				80	131	
	Endosulfan sulfate	16.65	17.6	ug/kg	106				81	122	
	4,4'-DDT	16.65	15.9	ug/kg	95				70	129	
	Methoxychlor	16.65	16.6	ug/kg	100				60	119	
	Endrin ketone	16.65	17.8	ug/kg	107				77	132	
	Endrin aldehyde	16.65	17.6	ug/kg	106				79	124	
	alpha-Chlordane	16.65	18.2	ug/kg	109				84	120	
	gamma-Chlordane	16.65	17.9	ug/kg	108				83	122	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD089330.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168718BS (Column 1)	alpha-BHC	0.5	0.56	ug/L	111				85	130	
	beta-BHC	0.5	0.53	ug/L	106				83	126	
	delta-BHC	0.5	0.59	ug/L	117				69	141	
	gamma-BHC (Lindane)	0.5	0.55	ug/L	110				82	129	
	Heptachlor	0.5	0.54	ug/L	107				79	127	
	Aldrin	0.5	0.56	ug/L	113				79	126	
	Heptachlor epoxide	0.5	0.55	ug/L	110				81	124	
	Endosulfan I	0.5	0.56	ug/L	112				85	122	
	Dieldrin	0.5	0.57	ug/L	113				83	125	
	4,4'-DDE	0.5	0.56	ug/L	112				80	127	
	Endrin	0.5	0.49	ug/L	98				81	128	
	Endosulfan II	0.5	0.57	ug/L	113				82	123	
	4,4'-DDD	0.5	0.59	ug/L	118				77	131	
	Endosulfan sulfate	0.5	0.55	ug/L	110				76	129	
	4,4'-DDT	0.5	0.48	ug/L	96				80	133	
	Methoxychlor	0.5	0.42	ug/L	83				78	108	
	Endrin ketone	0.5	0.56	ug/L	111				80	131	
	Endrin aldehyde	0.5	0.56	ug/L	112				82	127	
	alpha-Chlordane	0.5	0.56	ug/L	111				82	125	
	gamma-Chlordane	0.5	0.57	ug/L	114				82	125	
PB168718BS (Column 2)	alpha-BHC	0.5	0.56	ug/L	112				85	130	
	beta-BHC	0.5	0.54	ug/L	109				83	126	
	delta-BHC	0.5	0.55	ug/L	110				69	141	
	gamma-BHC (Lindane)	0.5	0.56	ug/L	111				82	129	
	Heptachlor	0.5	0.52	ug/L	105				79	127	
	Aldrin	0.5	0.56	ug/L	111				79	126	
	Heptachlor epoxide	0.5	0.55	ug/L	111				81	124	
	Endosulfan I	0.5	0.55	ug/L	111				85	122	
	Dieldrin	0.5	0.55	ug/L	110				83	125	
	4,4'-DDE	0.5	0.55	ug/L	110				80	127	
	Endrin	0.5	0.48	ug/L	95				81	128	
	Endosulfan II	0.5	0.55	ug/L	110				82	123	
	4,4'-DDD	0.5	0.56	ug/L	112				77	131	
	Endosulfan sulfate	0.5	0.55	ug/L	109				76	129	
	4,4'-DDT	0.5	0.47	ug/L	95				80	133	
	Methoxychlor	0.5	0.44	ug/L	88				78	108	
	Endrin ketone	0.5	0.55	ug/L	110				80	131	
	Endrin aldehyde	0.5	0.55	ug/L	110				82	127	
	alpha-Chlordane	0.5	0.55	ug/L	109				82	125	
	gamma-Chlordane	0.5	0.55	ug/L	109				82	125	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD089331.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168718BSD (Column 1)	alpha-BHC	0.5	0.55	ug/L	110	1			85	130	20
	beta-BHC	0.5	0.52	ug/L	104	2			83	126	20
	delta-BHC	0.5	0.57	ug/L	114	3			69	141	20
	gamma-BHC (Lindane)	0.5	0.55	ug/L	109	1			82	129	20
	Heptachlor	0.5	0.53	ug/L	106	1			79	127	20
	Aldrin	0.5	0.56	ug/L	111	2			79	126	20
	Heptachlor epoxide	0.5	0.54	ug/L	109	1			81	124	20
	Endosulfan I	0.5	0.55	ug/L	110	2			85	122	20
	Dieldrin	0.5	0.56	ug/L	112	1			83	125	20
	4,4'-DDE	0.5	0.55	ug/L	110	2			80	127	20
	Endrin	0.5	0.48	ug/L	97	1			81	128	20
	Endosulfan II	0.5	0.56	ug/L	112	1			82	123	20
	4,4'-DDD	0.5	0.58	ug/L	117	1			77	131	20
	Endosulfan sulfate	0.5	0.55	ug/L	109	1			76	129	20
	4,4'-DDT	0.5	0.47	ug/L	95	1			80	133	20
	Methoxychlor	0.5	0.42	ug/L	83	0			78	108	20
	Endrin ketone	0.5	0.55	ug/L	110	1			80	131	20
	Endrin aldehyde	0.5	0.55	ug/L	111	1			82	127	20
	alpha-Chlordane	0.5	0.55	ug/L	110	1			82	125	20
	gamma-Chlordane	0.5	0.56	ug/L	113	1			82	125	20
PB168718BSD (Column 2)	alpha-BHC	0.5	0.56	ug/L	111	1			85	130	20
	beta-BHC	0.5	0.54	ug/L	108	1			83	126	20
	delta-BHC	0.5	0.55	ug/L	110	0			69	141	20
	gamma-BHC (Lindane)	0.5	0.55	ug/L	111	0			82	129	20
	Heptachlor	0.5	0.52	ug/L	104	1			79	127	20
	Aldrin	0.5	0.55	ug/L	111	0			79	126	20
	Heptachlor epoxide	0.5	0.55	ug/L	111	0			81	124	20
	Endosulfan I	0.5	0.55	ug/L	110	1			85	122	20
	Dieldrin	0.5	0.55	ug/L	110	0			83	125	20
	4,4'-DDE	0.5	0.55	ug/L	109	1			80	127	20
	Endrin	0.5	0.48	ug/L	96	1			81	128	20
	Endosulfan II	0.5	0.54	ug/L	109	1			82	123	20
	4,4'-DDD	0.5	0.56	ug/L	112	0			77	131	20
	Endosulfan sulfate	0.5	0.55	ug/L	109	0			76	129	20
	4,4'-DDT	0.5	0.47	ug/L	94	1			80	133	20
	Methoxychlor	0.5	0.44	ug/L	88	0			78	108	20
	Endrin ketone	0.5	0.55	ug/L	111	1			80	131	20
	Endrin aldehyde	0.5	0.55	ug/L	110	0			82	127	20
	alpha-Chlordane	0.5	0.54	ug/L	108	1			82	125	20
	gamma-Chlordane	0.5	0.55	ug/L	109	0			82	125	20

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168672BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab Sample ID: PB168672BL | Lab File ID: PD089270.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/01/2025

Date Analyzed (1): 07/01/2025 | Date Analyzed (2): 07/01/2025

Time Analyzed (1): 14:33 | Time Analyzed (2): 14:33

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
PB168672BS	PB168672BS	PD089275.D	07/01/2025	07/01/2025
TP-76	Q2458-01	PD089284.D	07/01/2025	07/01/2025
TP-55	Q2458-02	PD089285.D	07/01/2025	07/01/2025
TP-68	Q2458-03	PD089286.D	07/01/2025	07/01/2025
TP-67	Q2458-04	PD089290.D	07/01/2025	07/01/2025
TP-67MS	Q2458-04MS	PD089291.D	07/01/2025	07/01/2025
TP-67MSD	Q2458-04MSD	PD089292.D	07/01/2025	07/01/2025
TP-66	Q2458-05	PD089293.D	07/01/2025	07/01/2025
TP-60	Q2458-06	PD089294.D	07/01/2025	07/01/2025
TP-62	Q2458-07	PD089295.D	07/01/2025	07/01/2025
TP-63	Q2458-08	PD089296.D	07/01/2025	07/01/2025
TP-59	Q2458-09	PD089297.D	07/01/2025	07/01/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168718BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab Sample ID: PB168718BL | Lab File ID: PD089329.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/03/2025

Date Analyzed (1): 07/03/2025 | Date Analyzed (2): 07/03/2025

Time Analyzed (1): 13:55 | Time Analyzed (2): 13:55

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
PB168718BS	PB168718BS	PD089330.D	07/03/2025	07/03/2025
PB168718BSD	PB168718BSD	PD089331.D	07/03/2025	07/03/2025
FB-06272025	Q2458-10	PD089332.D	07/03/2025	07/03/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168672BL	SDG No.:	Q2458
Lab Sample ID:	PB168672BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089270.D	1	07/01/25 08:30	07/01/25 14:33	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.3		20 - 144	87%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		19 - 148	100%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168672BL	SDG No.:	Q2458
Lab Sample ID:	PB168672BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089270.D	1	07/01/25 08:30	07/01/25 14:33	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168718BL	SDG No.:	Q2458
Lab Sample ID:	PB168718BL	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089329.D	1	07/03/25 08:58	07/03/25 13:55	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.0		57 - 171	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		61 - 148	102%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168718BL	SDG No.:	Q2458
Lab Sample ID:	PB168718BL	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089329.D	1	07/03/25 08:58	07/03/25 13:55	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		57 - 171	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		61 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089264.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089264.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089264.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.3		57 - 171	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		61 - 148	114%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089264.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089264.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089264.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089276.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089276.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089276.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.0		57 - 171	115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.2		61 - 148	116%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089276.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089276.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089276.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089287.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089287.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089287.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.1		57 - 171	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.4		61 - 148	117%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089287.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089287.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089287.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089298.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089298.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089298.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.1		57 - 171	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.2		61 - 148	121%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PD089298.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089298.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089298.D	1		07/01/25	pd070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-PD089326.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089326.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089326.D	1		07/03/25	pd070425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		57 - 171	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		61 - 148	109%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-PD089326.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089326.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089326.D	1		07/03/25	pd070425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-PD089337.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089337.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089337.D	1		07/03/25	pd070425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		57 - 171	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.4		61 - 148	112%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-PD089337.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PD089337.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089337.D	1		07/03/25	pd070425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168672BS	SDG No.:	Q2458
Lab Sample ID:	PB168672BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089275.D	1	07/01/25 08:30	07/01/25 16:23	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.7		0.13	1.70	ug/kg
319-85-7	beta-BHC	18.0		0.18	1.70	ug/kg
319-86-8	delta-BHC	19.2		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	18.6		0.14	1.70	ug/kg
76-44-8	Heptachlor	18.2		0.12	1.70	ug/kg
309-00-2	Aldrin	18.7		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	19.3		0.19	1.70	ug/kg
959-98-8	Endosulfan I	18.4		0.14	1.70	ug/kg
60-57-1	Dieldrin	18.4		0.14	1.70	ug/kg
72-55-9	4,4-DDE	18.4		0.14	1.70	ug/kg
72-20-8	Endrin	16.5		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	17.9		0.29	1.70	ug/kg
72-54-8	4,4-DDD	18.7		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	17.7		0.13	1.70	ug/kg
50-29-3	4,4-DDT	16.3		0.14	1.70	ug/kg
72-43-5	Methoxychlor	16.6		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	18.3		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	17.8		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	18.2		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	18.5		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.6		20 - 144	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		19 - 148	104%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168672BS	SDG No.:	Q2458
Lab Sample ID:	PB168672BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089275.D	1	07/01/25 08:30	07/01/25 16:23	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168718BS	SDG No.:	Q2458
Lab Sample ID:	PB168718BS	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089330.D	1	07/03/25 08:58	07/03/25 14:09	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.56		0.0039	0.050	ug/L
319-85-7	beta-BHC	0.54		0.0049	0.050	ug/L
319-86-8	delta-BHC	0.59		0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.56		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.54		0.0027	0.050	ug/L
309-00-2	Aldrin	0.56		0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.55		0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.56		0.0031	0.050	ug/L
60-57-1	Dieldrin	0.57		0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.56		0.0037	0.050	ug/L
72-20-8	Endrin	0.49		0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.57		0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.59		0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.55		0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.48		0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.44		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.56		0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.56		0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.56		0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.57		0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.9		57 - 171	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		61 - 148	103%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168718BS	SDG No.:	Q2458
Lab Sample ID:	PB168718BS	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089330.D	1	07/03/25 08:58	07/03/25 14:09	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168718BSD	SDG No.:	Q2458
Lab Sample ID:	PB168718BSD	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089331.D	1	07/03/25 08:58	07/03/25 14:27	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.56		0.0039	0.050	ug/L
319-85-7	beta-BHC	0.54		0.0049	0.050	ug/L
319-86-8	delta-BHC	0.57		0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.55		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.53		0.0027	0.050	ug/L
309-00-2	Aldrin	0.56		0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.55		0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.55		0.0031	0.050	ug/L
60-57-1	Dieldrin	0.56		0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.55		0.0037	0.050	ug/L
72-20-8	Endrin	0.48		0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.56		0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.58		0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.55		0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.47		0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.44		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.55		0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.55		0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.55		0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.56		0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.0		57 - 171	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		61 - 148	104%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168718BSD	SDG No.:	Q2458
Lab Sample ID:	PB168718BSD	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089331.D	1	07/03/25 08:58	07/03/25 14:27	PB168718

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089291.D	1	07/01/25 08:30	07/01/25 20:29	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.7		0.14	1.90	ug/kg
319-85-7	beta-BHC	17.6		0.20	1.90	ug/kg
319-86-8	delta-BHC	17.9		0.43	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	17.5		0.16	1.90	ug/kg
76-44-8	Heptachlor	16.5		0.13	1.90	ug/kg
309-00-2	Aldrin	18.0		0.13	1.90	ug/kg
1024-57-3	Heptachlor epoxide	18.2		0.21	1.90	ug/kg
959-98-8	Endosulfan I	17.8		0.16	1.90	ug/kg
60-57-1	Dieldrin	17.7		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.0		0.16	1.90	ug/kg
72-20-8	Endrin	16.9		0.16	1.90	ug/kg
33213-65-9	Endosulfan II	17.2		0.32	1.90	ug/kg
72-54-8	4,4-DDD	18.4		0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	16.4		0.14	1.90	ug/kg
50-29-3	4,4-DDT	14.2		0.16	1.90	ug/kg
72-43-5	Methoxychlor	13.4		0.41	1.90	ug/kg
53494-70-5	Endrin ketone	17.2		0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	16.8		0.41	1.90	ug/kg
5103-71-9	alpha-Chlordane	18.0		0.13	1.90	ug/kg
5103-74-2	gamma-Chlordane	18.3		0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.00	U	6.00	36.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.5		20 - 144	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		19 - 148	107%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089291.D	1	07/01/25 08:30	07/01/25 20:29	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089292.D	1	07/01/25 08:30	07/01/25 20:43	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.2		0.14	1.90	ug/kg
319-85-7	beta-BHC	17.9		0.20	1.90	ug/kg
319-86-8	delta-BHC	19.0		0.43	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	18.2		0.16	1.90	ug/kg
76-44-8	Heptachlor	16.9		0.13	1.90	ug/kg
309-00-2	Aldrin	18.2		0.13	1.90	ug/kg
1024-57-3	Heptachlor epoxide	18.3		0.21	1.90	ug/kg
959-98-8	Endosulfan I	17.9		0.16	1.90	ug/kg
60-57-1	Dieldrin	17.9		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.0		0.16	1.90	ug/kg
72-20-8	Endrin	17.2		0.16	1.90	ug/kg
33213-65-9	Endosulfan II	17.4		0.32	1.90	ug/kg
72-54-8	4,4-DDD	19.0		0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	17.1		0.14	1.90	ug/kg
50-29-3	4,4-DDT	15.0		0.16	1.90	ug/kg
72-43-5	Methoxychlor	14.2		0.41	1.90	ug/kg
53494-70-5	Endrin ketone	17.7		0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	17.3		0.41	1.90	ug/kg
5103-71-9	alpha-Chlordane	18.2		0.13	1.90	ug/kg
5103-74-2	gamma-Chlordane	18.4		0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.00	U	6.00	36.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.6		20 - 144	83%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		19 - 148	108%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089292.D	1	07/01/25 08:30	07/01/25 20:43	PB168672

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D
Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

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

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.70	6.71	6.70	6.70	6.70	6.60	6.80
4,4'-DDE	6.20	6.20	6.20	6.20	6.19	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.51	4.41	4.61
Decachlorobiphenyl	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
delta-BHC	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.07	6.07	6.08	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Endrin	6.57	6.57	6.58	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.91	6.92	6.91	6.91	6.91	6.81	7.01
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
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	7.49	7.49	7.49	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

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D
Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

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

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
4,4'-DDE	5.38	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.18	6.18	6.18	6.18	6.18	6.18	6.08	6.28
Aldrin	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
alpha-BHC	3.39	3.39	3.39	3.39	3.39	3.39	3.29	3.49
alpha-Chlordane	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
delta-BHC	4.26	4.26	4.26	4.26	4.26	4.26	4.16	4.36
Dieldrin	5.51	5.51	5.51	5.51	5.51	5.51	5.41	5.61
Endosulfan I	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan sulfate	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
Endrin aldehyde	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Endrin ketone	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
gamma-Chlordane	5.13	5.13	5.13	5.13	5.13	5.13	5.03	5.23
Heptachlor	4.08	4.08	4.08	4.08	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.75	6.76	6.75	6.75	6.75	6.65	6.85
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

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

LAB FILE ID: CF 100 = PD088993.D CF 075 = PD088994.D
CF 050 = PD088995.D CF 025 = PD088996.D CF 005 = PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3557450000	3439230000	3414120000	3228670000	3520780000	3432050000	4
4,4'-DDE	4564130000	4401240000	4312380000	4092310000	4435110000	4361030000	4
4,4'-DDT	3928430000	3802000000	3763430000	3580670000	3866490000	3788210000	3
Aldrin	5504150000	5312640000	5254800000	4989300000	5504000000	5312980000	4
alpha-BHC	6295370000	6031790000	5874750000	5417910000	5525530000	5829070000	6
alpha-Chlordane	4885060000	4758900000	4734630000	4584390000	5229700000	4838540000	5
beta-BHC	2136750000	2100860000	2137680000	2144670000	2515730000	2207140000	8
Decachlorobiphenyl	3598890000	3628150000	3773200000	3897960000	4739940000	3927630000	12
delta-BHC	5546280000	5292010000	5182350000	4751190000	4892690000	5132900000	6
Dieldrin	4933650000	4797080000	4750270000	4527510000	4978810000	4797470000	4
Endosulfan I	4511200000	4405770000	4412600000	4289200000	4918470000	4507450000	5
Endosulfan II	3829260000	3982180000	4002080000	3816490000	4553000000	4036600000	7
Endosulfan sulfate	3786900000	3718160000	3741600000	3667440000	4271990000	3837220000	6
Endrin	4238140000	4109540000	4096430000	3878120000	4305700000	4125590000	4
Endrin aldehyde	2964260000	2935670000	2964230000	2966830000	3488720000	3063940000	8
Endrin ketone	4050100000	3970810000	4004900000	3895960000	4443590000	4073070000	5
gamma-BHC (Lindane)	5900830000	5686510000	5566590000	5221690000	5532800000	5581680000	4
gamma-Chlordane	4869330000	4801300000	4716110000	4508810000	5045020000	4788110000	4
Heptachlor	5621840000	5429540000	5358570000	5116310000	5733550000	5451960000	4
Heptachlor epoxide	4794850000	4673610000	4749650000	4554690000	5346870000	4823940000	6
Methoxychlor	1926110000	1918890000	1971480000	1982080000	2304580000	2020630000	8
Tetrachloro-m-xylene	2812300000	2762040000	2767280000	2751820000	3172230000	2853130000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

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

LAB FILE ID: CF 100 = PD088993.D CF 075 = PD088994.D
CF 050 = PD088995.D CF 025 = PD088996.D CF 005 = PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	17754100000	17899700000	18191100000	18805800000	22996200000	19129400000	11
4,4'-DDE	21343500000	21440200000	21823600000	22564100000	27409000000	22916100000	11
4,4'-DDT	19391000000	19327800000	19594100000	20005200000	23078500000	20279300000	8
Aldrin	22719200000	22747700000	23159400000	23852800000	28607200000	24217300000	10
alpha-BHC	25649000000	25438700000	25849200000	26153100000	30895500000	26797100000	9
alpha-Chlordane	21191300000	21145300000	21570900000	22517200000	28059300000	22896800000	13
beta-BHC	9903630000	9918550000	10198200000	10624100000	13086800000	10746200000	12
Decachlorobiphenyl	17946500000	17939700000	18428600000	19427500000	25107500000	19770000000	15
delta-BHC	23614400000	23533700000	23918700000	24298300000	29003000000	24873600000	9
Dieldrin	21438700000	21622000000	22120600000	22941800000	27919200000	23208500000	12
Endosulfan I	19170300000	19201000000	19315500000	20752900000	25772600000	20842500000	14
Endosulfan II	18473200000	18573800000	19087100000	20002300000	24846800000	20196600000	13
Endosulfan sulfate	17925600000	18043500000	18492500000	19409200000	24234500000	19621100000	13
Endrin	20535400000	19906600000	20644700000	21276500000	26206500000	21713900000	12
Endrin aldehyde	13773600000	13920200000	14379400000	15195500000	19287900000	15311300000	15
Endrin ketone	19587400000	19824900000	20446500000	21535300000	26614600000	21601700000	13
gamma-BHC (Lindane)	23622800000	23442000000	23749900000	24221500000	28748400000	24756900000	9
gamma-Chlordane	22229100000	22022500000	22519500000	23493700000	29348800000	23922700000	13
Heptachlor	23291600000	23365200000	23922200000	24716000000	29896800000	25038400000	11
Heptachlor epoxide	20080600000	20251900000	20827300000	21695300000	26635200000	21898100000	12
Methoxychlor	9712450000	9897880000	10259100000	10830900000	13140100000	10768100000	13
Tetrachloro-m-xylene	15879800000	15866400000	15978000000	16730900000	20310700000	16953200000	11

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2458 **SAS No.:** Q2458 **SDG NO.:** Q2458

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	33601800
		2	6.44	6.34	6.54	47528600
		3	7.15	7.05	7.25	87292700
		4	7.56	7.46	7.66	111357000
		5	7.93	7.83	8.03	63112600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2458 **SAS No.:** Q2458 **SDG NO.:** Q2458

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.47	5.37	5.57	158160000
		2	5.65	5.55	5.75	108820000
		3	6.76	6.66	6.86	511856000
		4	7.20	7.10	7.30	350145000
		5	7.33	7.23	7.43	253920000

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 13:35 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.07	8.97	9.17	-0.01
Tetrachloro-m-xylene	3.56	3.55	3.45	3.65	-0.01
alpha-BHC	4.01	4.00	3.90	4.10	-0.01
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.94	4.93	4.83	5.03	-0.01
Aldrin	5.28	5.27	5.17	5.37	-0.01
Heptachlor epoxide	5.70	5.69	5.59	5.79	-0.01
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.36	6.35	6.25	6.45	-0.01
4,4'-DDE	6.21	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.00
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.49	7.39	7.59	-0.01
Endrin ketone	7.64	7.63	7.53	7.73	-0.01
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.04	6.03	5.93	6.13	-0.01
gamma-Chlordane	5.96	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 13:35 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.19	6.18	6.08	6.28	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089266.D **Time Analyzed:** 13:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.715	6.605	6.805	51.660	50.000	3.3
4,4'-DDE	6.205	6.096	6.296	48.860	50.000	-2.3
4,4'-DDT	7.030	6.921	7.121	43.340	50.000	-13.3
Aldrin	5.280	5.171	5.371	51.140	50.000	2.3
alpha-BHC	4.008	3.899	4.099	52.120	50.000	4.2
alpha-Chlordane	6.036	5.927	6.127	49.710	50.000	-0.6
beta-BHC	4.524	4.415	4.615	48.950	50.000	-2.1
Decachlorobiphenyl	9.084	8.972	9.172	48.780	50.000	-2.4
delta-BHC	4.772	4.664	4.864	53.570	50.000	7.1
Dieldrin	6.356	6.247	6.447	50.140	50.000	0.3
Endosulfan I	6.083	5.975	6.175	49.940	50.000	-0.1
Endosulfan II	6.795	6.686	6.886	48.920	50.000	-2.2
Endosulfan sulfate	7.158	7.049	7.249	48.220	50.000	-3.6
Endrin	6.583	6.475	6.675	46.610	50.000	-6.8
Endrin aldehyde	6.923	6.815	7.015	47.590	50.000	-4.8
Endrin ketone	7.639	7.530	7.730	48.720	50.000	-2.6
gamma-BHC (Lindane)	4.339	4.230	4.430	50.900	50.000	1.8
gamma-Chlordane	5.955	5.846	6.046	50.610	50.000	1.2
Heptachlor	4.938	4.829	5.029	49.650	50.000	-0.7
Heptachlor epoxide	5.700	5.591	5.791	49.160	50.000	-1.7
Methoxychlor	7.502	7.393	7.593	49.560	50.000	-0.9
Tetrachloro-m-xylene	3.558	3.450	3.650	51.440	50.000	2.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089266.D **Time Analyzed:** 13:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.931	5.830	6.030	47.120	50.000	-5.8
4,4'-DDE	5.376	5.275	5.475	48.960	50.000	-2.1
4,4'-DDT	6.185	6.084	6.284	42.950	50.000	-14.1
Aldrin	4.370	4.269	4.469	49.490	50.000	-1.0
alpha-BHC	3.393	3.293	3.493	50.180	50.000	0.4
alpha-Chlordane	5.192	5.091	5.291	50.230	50.000	0.5
beta-BHC	4.026	3.926	4.126	47.780	50.000	-4.4
Decachlorobiphenyl	8.074	7.972	8.172	48.360	50.000	-3.3
delta-BHC	4.263	4.162	4.362	48.900	50.000	-2.2
Dieldrin	5.512	5.413	5.613	48.830	50.000	-2.3
Endosulfan I	5.248	5.147	5.347	50.360	50.000	0.7
Endosulfan II	6.082	5.981	6.181	48.700	50.000	-2.6
Endosulfan sulfate	6.484	6.383	6.583	48.060	50.000	-3.9
Endrin	5.791	5.689	5.889	47.960	50.000	-4.1
Endrin aldehyde	6.260	6.159	6.359	47.200	50.000	-5.6
Endrin ketone	6.993	6.892	7.092	48.850	50.000	-2.3
gamma-BHC (Lindane)	3.728	3.630	3.830	49.670	50.000	-0.7
gamma-Chlordane	5.125	5.026	5.226	48.580	50.000	-2.8
Heptachlor	4.083	3.983	4.183	47.120	50.000	-5.8
Heptachlor epoxide	4.872	4.773	4.973	49.620	50.000	-0.8
Methoxychlor	6.756	6.655	6.855	49.370	50.000	-1.3
Tetrachloro-m-xylene	2.880	2.780	2.980	51.270	50.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 16:50 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	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
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 16:50 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.01
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089277.D **Time Analyzed:** 16:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.706	6.605	6.805	51.810	50.000	3.6
4,4'-DDE	6.196	6.096	6.296	49.240	50.000	-1.5
4,4'-DDT	7.021	6.921	7.121	44.170	50.000	-11.7
Aldrin	5.272	5.171	5.371	51.690	50.000	3.4
alpha-BHC	4.000	3.899	4.099	52.270	50.000	4.5
alpha-Chlordane	6.028	5.927	6.127	50.240	50.000	0.5
beta-BHC	4.516	4.415	4.615	49.900	50.000	-0.2
Decachlorobiphenyl	9.073	8.972	9.172	48.690	50.000	-2.6
delta-BHC	4.765	4.664	4.864	53.990	50.000	8.0
Dieldrin	6.348	6.247	6.447	50.190	50.000	0.4
Endosulfan I	6.075	5.975	6.175	50.580	50.000	1.2
Endosulfan II	6.787	6.686	6.886	49.450	50.000	-1.1
Endosulfan sulfate	7.150	7.049	7.249	48.310	50.000	-3.4
Endrin	6.574	6.475	6.675	47.220	50.000	-5.6
Endrin aldehyde	6.916	6.815	7.015	48.350	50.000	-3.3
Endrin ketone	7.630	7.530	7.730	49.130	50.000	-1.7
gamma-BHC (Lindane)	4.331	4.230	4.430	51.800	50.000	3.6
gamma-Chlordane	5.947	5.846	6.046	50.960	50.000	1.9
Heptachlor	4.930	4.829	5.029	50.200	50.000	0.4
Heptachlor epoxide	5.691	5.591	5.791	49.950	50.000	-0.1
Methoxychlor	7.493	7.393	7.593	50.180	50.000	0.4
Tetrachloro-m-xylene	3.550	3.450	3.650	51.880	50.000	3.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089277.D **Time Analyzed:** 16:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.930	5.830	6.030	48.050	50.000	-3.9
4,4'-DDE	5.375	5.275	5.475	50.250	50.000	0.5
4,4'-DDT	6.183	6.084	6.284	44.120	50.000	-11.8
Aldrin	4.369	4.269	4.469	51.130	50.000	2.3
alpha-BHC	3.394	3.293	3.493	51.500	50.000	3.0
alpha-Chlordane	5.189	5.091	5.291	49.750	50.000	-0.5
beta-BHC	4.026	3.926	4.126	49.490	50.000	-1.0
Decachlorobiphenyl	8.072	7.972	8.172	47.700	50.000	-4.6
delta-BHC	4.263	4.162	4.362	50.640	50.000	1.3
Dieldrin	5.511	5.413	5.613	50.100	50.000	0.2
Endosulfan I	5.245	5.147	5.347	49.820	50.000	-0.4
Endosulfan II	6.080	5.981	6.181	49.230	50.000	-1.5
Endosulfan sulfate	6.482	6.383	6.583	48.600	50.000	-2.8
Endrin	5.789	5.689	5.889	50.440	50.000	0.9
Endrin aldehyde	6.258	6.159	6.359	47.730	50.000	-4.5
Endrin ketone	6.991	6.892	7.092	49.210	50.000	-1.6
gamma-BHC (Lindane)	3.728	3.630	3.830	51.080	50.000	2.2
gamma-Chlordane	5.124	5.026	5.226	49.420	50.000	-1.2
Heptachlor	4.083	3.983	4.183	49.000	50.000	-2.0
Heptachlor epoxide	4.871	4.773	4.973	50.730	50.000	1.5
Methoxychlor	6.754	6.655	6.855	51.030	50.000	2.1
Tetrachloro-m-xylene	2.881	2.780	2.980	53.140	50.000	6.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 19:34 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.76	4.76	4.66	4.86	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
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 19:34 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089289.D **Time Analyzed:** 19:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.705	6.605	6.805	50.410	50.000	0.8
4,4'-DDE	6.196	6.096	6.296	48.040	50.000	-3.9
4,4'-DDT	7.021	6.921	7.121	42.110	50.000	-15.8
Aldrin	5.271	5.171	5.371	50.960	50.000	1.9
alpha-BHC	3.999	3.899	4.099	51.940	50.000	3.9
alpha-Chlordane	6.027	5.927	6.127	49.270	50.000	-1.5
beta-BHC	4.516	4.415	4.615	49.360	50.000	-1.3
Decachlorobiphenyl	9.072	8.972	9.172	46.970	50.000	-6.1
delta-BHC	4.764	4.664	4.864	53.460	50.000	6.9
Dieldrin	6.347	6.247	6.447	49.220	50.000	-1.6
Endosulfan I	6.075	5.975	6.175	49.550	50.000	-0.9
Endosulfan II	6.786	6.686	6.886	47.770	50.000	-4.5
Endosulfan sulfate	7.149	7.049	7.249	46.540	50.000	-6.9
Endrin	6.575	6.475	6.675	46.290	50.000	-7.4
Endrin aldehyde	6.915	6.815	7.015	47.210	50.000	-5.6
Endrin ketone	7.630	7.530	7.730	47.690	50.000	-4.6
gamma-BHC (Lindane)	4.331	4.230	4.430	51.280	50.000	2.6
gamma-Chlordane	5.946	5.846	6.046	49.990	50.000	0.0
Heptachlor	4.930	4.829	5.029	49.310	50.000	-1.4
Heptachlor epoxide	5.692	5.591	5.791	48.920	50.000	-2.2
Methoxychlor	7.493	7.393	7.593	48.080	50.000	-3.8
Tetrachloro-m-xylene	3.550	3.450	3.650	51.730	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089289.D **Time Analyzed:** 19:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.930	5.830	6.030	46.490	50.000	-7.0
4,4'-DDE	5.375	5.275	5.475	48.790	50.000	-2.4
4,4'-DDT	6.183	6.084	6.284	41.790	50.000	-16.4
Aldrin	4.369	4.269	4.469	49.870	50.000	-0.3
alpha-BHC	3.393	3.293	3.493	50.900	50.000	1.8
alpha-Chlordane	5.190	5.091	5.291	50.080	50.000	0.2
beta-BHC	4.026	3.926	4.126	48.780	50.000	-2.4
Decachlorobiphenyl	8.072	7.972	8.172	44.010	50.000	-12.0
delta-BHC	4.262	4.162	4.362	49.450	50.000	-1.1
Dieldrin	5.511	5.413	5.613	48.580	50.000	-2.8
Endosulfan I	5.247	5.147	5.347	50.020	50.000	0.0
Endosulfan II	6.080	5.981	6.181	47.250	50.000	-5.5
Endosulfan sulfate	6.482	6.383	6.583	46.320	50.000	-7.4
Endrin	5.789	5.689	5.889	48.800	50.000	-2.4
Endrin aldehyde	6.259	6.159	6.359	45.640	50.000	-8.7
Endrin ketone	6.991	6.892	7.092	46.530	50.000	-6.9
gamma-BHC (Lindane)	3.730	3.630	3.830	49.230	50.000	-1.5
gamma-Chlordane	5.124	5.026	5.226	48.400	50.000	-3.2
Heptachlor	4.083	3.983	4.183	47.790	50.000	-4.4
Heptachlor epoxide	4.871	4.773	4.973	49.490	50.000	-1.0
Methoxychlor	6.753	6.655	6.855	48.100	50.000	-3.8
Tetrachloro-m-xylene	2.881	2.780	2.980	52.340	50.000	4.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 22:59 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.76	4.76	4.66	4.86	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
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 22:59 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089299.D **Time Analyzed:** 22:59

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.705	6.605	6.805	49.240	50.000	-1.5
4,4'-DDE	6.196	6.096	6.296	47.280	50.000	-5.4
4,4'-DDT	7.021	6.921	7.121	40.210	50.000	-19.6
Aldrin	5.271	5.171	5.371	50.470	50.000	0.9
alpha-BHC	4.000	3.899	4.099	51.690	50.000	3.4
alpha-Chlordane	6.027	5.927	6.127	48.830	50.000	-2.3
beta-BHC	4.516	4.415	4.615	49.400	50.000	-1.2
Decachlorobiphenyl	9.073	8.972	9.172	45.290	50.000	-9.4
delta-BHC	4.764	4.664	4.864	53.160	50.000	6.3
Dieldrin	6.347	6.247	6.447	48.690	50.000	-2.6
Endosulfan I	6.074	5.975	6.175	48.840	50.000	-2.3
Endosulfan II	6.786	6.686	6.886	46.800	50.000	-6.4
Endosulfan sulfate	7.150	7.049	7.249	45.830	50.000	-8.3
Endrin	6.574	6.475	6.675	44.690	50.000	-10.6
Endrin aldehyde	6.915	6.815	7.015	45.270	50.000	-9.5
Endrin ketone	7.630	7.530	7.730	46.190	50.000	-7.6
gamma-BHC (Lindane)	4.330	4.230	4.430	51.150	50.000	2.3
gamma-Chlordane	5.946	5.846	6.046	49.870	50.000	-0.3
Heptachlor	4.930	4.829	5.029	48.000	50.000	-4.0
Heptachlor epoxide	5.690	5.591	5.791	48.490	50.000	-3.0
Methoxychlor	7.493	7.393	7.593	45.780	50.000	-8.4
Tetrachloro-m-xylene	3.550	3.450	3.650	51.450	50.000	2.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089299.D **Time Analyzed:** 22:59

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.929	5.830	6.030	48.080	50.000	-3.8
4,4'-DDE	5.375	5.275	5.475	48.280	50.000	-3.4
4,4'-DDT	6.182	6.084	6.284	40.910	50.000	-18.2
Aldrin	4.368	4.269	4.469	50.130	50.000	0.3
alpha-BHC	3.393	3.293	3.493	50.710	50.000	1.4
alpha-Chlordane	5.189	5.091	5.291	48.800	50.000	-2.4
beta-BHC	4.025	3.926	4.126	48.630	50.000	-2.7
Decachlorobiphenyl	8.071	7.972	8.172	41.860	50.000	-16.3
delta-BHC	4.262	4.162	4.362	49.480	50.000	-1.0
Dieldrin	5.511	5.413	5.613	48.470	50.000	-3.1
Endosulfan I	5.246	5.147	5.347	48.840	50.000	-2.3
Endosulfan II	6.080	5.981	6.181	47.030	50.000	-5.9
Endosulfan sulfate	6.481	6.383	6.583	45.240	50.000	-9.5
Endrin	5.789	5.689	5.889	48.700	50.000	-2.6
Endrin aldehyde	6.258	6.159	6.359	45.360	50.000	-9.3
Endrin ketone	6.990	6.892	7.092	45.230	50.000	-9.5
gamma-BHC (Lindane)	3.729	3.630	3.830	48.650	50.000	-2.7
gamma-Chlordane	5.125	5.026	5.226	49.370	50.000	-1.3
Heptachlor	4.082	3.983	4.183	47.260	50.000	-5.5
Heptachlor epoxide	4.872	4.773	4.973	51.730	50.000	3.5
Methoxychlor	6.753	6.655	6.855	46.030	50.000	-7.9
Tetrachloro-m-xylene	2.881	2.780	2.980	52.440	50.000	4.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/03/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:46 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	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
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/03/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:46 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/03/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089328.D **Time Analyzed:** 09:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.705	6.605	6.805	54.350	50.000	8.7
4,4'-DDE	6.196	6.096	6.296	51.990	50.000	4.0
4,4'-DDT	7.021	6.921	7.121	43.940	50.000	-12.1
Aldrin	5.271	5.171	5.371	55.520	50.000	11.0
alpha-BHC	4.000	3.899	4.099	56.340	50.000	12.7
alpha-Chlordane	6.027	5.927	6.127	54.210	50.000	8.4
beta-BHC	4.516	4.415	4.615	53.430	50.000	6.9
Decachlorobiphenyl	9.073	8.972	9.172	46.920	50.000	-6.2
delta-BHC	4.765	4.664	4.864	58.070	50.000	16.1
Dieldrin	6.347	6.247	6.447	54.110	50.000	8.2
Endosulfan I	6.075	5.975	6.175	54.180	50.000	8.4
Endosulfan II	6.786	6.686	6.886	51.490	50.000	3.0
Endosulfan sulfate	7.150	7.049	7.249	49.420	50.000	-1.2
Endrin	6.574	6.475	6.675	49.350	50.000	-1.3
Endrin aldehyde	6.915	6.815	7.015	49.610	50.000	-0.8
Endrin ketone	7.630	7.530	7.730	49.570	50.000	-0.9
gamma-BHC (Lindane)	4.331	4.230	4.430	55.920	50.000	11.8
gamma-Chlordane	5.946	5.846	6.046	55.190	50.000	10.4
Heptachlor	4.930	4.829	5.029	52.740	50.000	5.5
Heptachlor epoxide	5.691	5.591	5.791	53.220	50.000	6.4
Methoxychlor	7.493	7.393	7.593	49.780	50.000	-0.4
Tetrachloro-m-xylene	3.550	3.450	3.650	55.630	50.000	11.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/03/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089328.D **Time Analyzed:** 09:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.929	5.830	6.030	52.750	50.000	5.5
4,4'-DDE	5.374	5.275	5.475	52.830	50.000	5.7
4,4'-DDT	6.183	6.084	6.284	44.690	50.000	-10.6
Aldrin	4.368	4.269	4.469	54.130	50.000	8.3
alpha-BHC	3.393	3.293	3.493	55.810	50.000	11.6
alpha-Chlordane	5.189	5.091	5.291	53.210	50.000	6.4
beta-BHC	4.025	3.926	4.126	51.100	50.000	2.2
Decachlorobiphenyl	8.072	7.972	8.172	44.450	50.000	-11.1
delta-BHC	4.261	4.162	4.362	53.310	50.000	6.6
Dieldrin	5.511	5.413	5.613	53.310	50.000	6.6
Endosulfan I	5.246	5.147	5.347	53.080	50.000	6.2
Endosulfan II	6.080	5.981	6.181	51.600	50.000	3.2
Endosulfan sulfate	6.482	6.383	6.583	49.050	50.000	-1.9
Endrin	5.789	5.689	5.889	54.650	50.000	9.3
Endrin aldehyde	6.258	6.159	6.359	49.950	50.000	-0.1
Endrin ketone	6.990	6.892	7.092	48.890	50.000	-2.2
gamma-BHC (Lindane)	3.728	3.630	3.830	54.280	50.000	8.6
gamma-Chlordane	5.123	5.026	5.226	52.410	50.000	4.8
Heptachlor	4.082	3.983	4.183	50.420	50.000	0.8
Heptachlor epoxide	4.872	4.773	4.973	56.110	50.000	12.2
Methoxychlor	6.754	6.655	6.855	49.550	50.000	-0.9
Tetrachloro-m-xylene	2.881	2.780	2.980	57.330	50.000	14.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/03/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 16:02 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	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
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/03/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 16:02 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/03/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089338.D **Time Analyzed:** 16:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.706	6.605	6.805	54.570	50.000	9.1
4,4'-DDE	6.196	6.096	6.296	50.560	50.000	1.1
4,4'-DDT	7.022	6.921	7.121	44.490	50.000	-11.0
Aldrin	5.271	5.171	5.371	54.740	50.000	9.5
alpha-BHC	4.000	3.899	4.099	55.900	50.000	11.8
alpha-Chlordane	6.027	5.927	6.127	52.800	50.000	5.6
beta-BHC	4.516	4.415	4.615	52.760	50.000	5.5
Decachlorobiphenyl	9.074	8.972	9.172	46.330	50.000	-7.3
delta-BHC	4.765	4.664	4.864	57.140	50.000	14.3
Dieldrin	6.348	6.247	6.447	52.530	50.000	5.1
Endosulfan I	6.075	5.975	6.175	52.890	50.000	5.8
Endosulfan II	6.787	6.686	6.886	51.760	50.000	3.5
Endosulfan sulfate	7.151	7.049	7.249	50.190	50.000	0.4
Endrin	6.575	6.475	6.675	49.270	50.000	-1.5
Endrin aldehyde	6.916	6.815	7.015	50.280	50.000	0.6
Endrin ketone	7.632	7.530	7.730	50.190	50.000	0.4
gamma-BHC (Lindane)	4.331	4.230	4.430	55.390	50.000	10.8
gamma-Chlordane	5.947	5.846	6.046	53.600	50.000	7.2
Heptachlor	4.930	4.829	5.029	52.380	50.000	4.8
Heptachlor epoxide	5.691	5.591	5.791	52.180	50.000	4.4
Methoxychlor	7.494	7.393	7.593	50.700	50.000	1.4
Tetrachloro-m-xylene	3.551	3.450	3.650	55.250	50.000	10.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Group **Contract:** CAMP02

Lab Code: CHEM **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/03/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089338.D **Time Analyzed:** 16:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.929	5.830	6.030	52.350	50.000	4.7
4,4'-DDE	5.375	5.275	5.475	52.440	50.000	4.9
4,4'-DDT	6.184	6.084	6.284	45.480	50.000	-9.0
Aldrin	4.369	4.269	4.469	54.440	50.000	8.9
alpha-BHC	3.393	3.293	3.493	56.730	50.000	13.5
alpha-Chlordane	5.190	5.091	5.291	52.940	50.000	5.9
beta-BHC	4.025	3.926	4.126	51.210	50.000	2.4
Decachlorobiphenyl	8.072	7.972	8.172	46.160	50.000	-7.7
delta-BHC	4.262	4.162	4.362	54.020	50.000	8.0
Dieldrin	5.511	5.413	5.613	52.900	50.000	5.8
Endosulfan I	5.246	5.147	5.347	52.850	50.000	5.7
Endosulfan II	6.080	5.981	6.181	51.150	50.000	2.3
Endosulfan sulfate	6.482	6.383	6.583	50.040	50.000	0.1
Endrin	5.789	5.689	5.889	54.140	50.000	8.3
Endrin aldehyde	6.259	6.159	6.359	50.360	50.000	0.7
Endrin ketone	6.991	6.892	7.092	49.800	50.000	-0.4
gamma-BHC (Lindane)	3.728	3.630	3.830	55.020	50.000	10.0
gamma-Chlordane	5.125	5.026	5.226	53.820	50.000	7.6
Heptachlor	4.082	3.983	4.183	52.110	50.000	4.2
Heptachlor epoxide	4.872	4.773	4.973	56.280	50.000	12.6
Methoxychlor	6.754	6.655	6.855	52.330	50.000	4.7
Tetrachloro-m-xylene	2.881	2.780	2.980	57.920	50.000	15.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.071	8.970	9.170	21.440	20.000	7.2
Tetrachloro-m-xylene	3.550	3.500	3.600	19.860	20.000	-0.7
alpha-BHC	3.999	3.950	4.050	8.970	10.000	-10.3
beta-BHC	4.514	4.460	4.560	9.720	10.000	-2.8
gamma-BHC (Lindane)	4.330	4.280	4.380	9.320	10.000	-6.8
Endrin	6.574	6.500	6.640	50.260	50.000	0.5
4,4'-DDT	7.020	6.950	7.090	100.820	100.000	0.8
Methoxychlor	7.493	7.420	7.560	229.880	250.000	-8.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.970	8.170	21.290	20.000	6.5
Tetrachloro-m-xylene	2.880	2.830	2.930	20.440	20.000	2.2
alpha-BHC	3.393	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.025	3.970	4.080	10.750	10.000	7.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.580	10.000	5.8
Endrin	5.789	5.720	5.860	50.490	50.000	1.0
4,4'-DDT	6.183	6.110	6.250	96.080	100.000	-3.9
Methoxychlor	6.754	6.680	6.820	198.860	250.000	-20.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089265.D **Date Analyzed:** 07/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:13

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.074	8.970	9.170	19.270	20.000	-3.7
Tetrachloro-m-xylene	3.550	3.500	3.600	18.530	20.000	-7.4
alpha-BHC	4.000	3.950	4.050	8.560	10.000	-14.4
beta-BHC	4.516	4.470	4.570	9.530	10.000	-4.7
gamma-BHC (Lindane)	4.329	4.280	4.380	8.840	10.000	-11.6
Endrin	6.573	6.500	6.640	43.050	50.000	-13.9
4,4'-DDT	7.022	6.950	7.090	78.670	100.000	-21.3
Methoxychlor	7.493	7.420	7.560	176.900	250.000	-29.2

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089265.D **Date Analyzed:** 07/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:13

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.970	8.170	19.650	20.000	-1.8
Tetrachloro-m-xylene	2.881	2.830	2.930	19.970	20.000	-0.2
alpha-BHC	3.392	3.340	3.440	10.130	10.000	1.3
beta-BHC	4.025	3.970	4.080	9.890	10.000	-1.1
gamma-BHC (Lindane)	3.730	3.680	3.780	9.870	10.000	-1.3
Endrin	5.789	5.720	5.860	45.160	50.000	-9.7
4,4'-DDT	6.183	6.110	6.250	78.010	100.000	-22.0
Methoxychlor	6.754	6.680	6.820	158.950	250.000	-36.4

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089288.D **Date Analyzed:** 07/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:21

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.072	8.970	9.170	17.760	20.000	-11.2
Tetrachloro-m-xylene	3.550	3.500	3.600	18.810	20.000	-6.0
alpha-BHC	3.999	3.950	4.050	8.640	10.000	-13.6
beta-BHC	4.516	4.470	4.570	9.570	10.000	-4.3
gamma-BHC (Lindane)	4.330	4.280	4.380	9.110	10.000	-8.9
Endrin	6.572	6.500	6.640	42.570	50.000	-14.9
4,4'-DDT	7.021	6.950	7.090	74.530	100.000	-25.5
Methoxychlor	7.493	7.420	7.560	168.790	250.000	-32.5

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089288.D **Date Analyzed:** 07/01/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:21

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.071	7.970	8.170	17.280	20.000	-13.6
Tetrachloro-m-xylene	2.881	2.830	2.930	20.200	20.000	1.0
alpha-BHC	3.393	3.340	3.440	10.600	10.000	6.0
beta-BHC	4.025	3.970	4.080	9.990	10.000	-0.1
gamma-BHC (Lindane)	3.728	3.680	3.780	10.260	10.000	2.6
Endrin	5.789	5.720	5.860	44.950	50.000	-10.1
4,4'-DDT	6.183	6.110	6.250	73.250	100.000	-26.8
Methoxychlor	6.753	6.680	6.820	152.400	250.000	-39.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089327.D **Date Analyzed:** 07/03/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:32

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.970	9.170	19.550	20.000	-2.3
Tetrachloro-m-xylene	3.551	3.500	3.600	21.620	20.000	8.1
alpha-BHC	3.999	3.950	4.050	10.140	10.000	1.4
beta-BHC	4.516	4.470	4.570	11.040	10.000	10.4
gamma-BHC (Lindane)	4.331	4.280	4.380	10.550	10.000	5.5
Endrin	6.574	6.500	6.640	48.050	50.000	-3.9
4,4'-DDT	7.021	6.950	7.090	83.070	100.000	-16.9
Methoxychlor	7.494	7.420	7.560	183.850	250.000	-26.5

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089327.D **Date Analyzed:** 07/03/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:32

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.071	7.970	8.170	19.330	20.000	-3.4
Tetrachloro-m-xylene	2.881	2.830	2.930	23.640	20.000	18.2
alpha-BHC	3.393	3.340	3.440	12.290	10.000	22.9
beta-BHC	4.025	3.970	4.080	11.540	10.000	15.4
gamma-BHC (Lindane)	3.729	3.680	3.780	11.780	10.000	17.8
Endrin	5.788	5.720	5.860	51.080	50.000	2.2
4,4'-DDT	6.182	6.110	6.250	82.740	100.000	-17.3
Methoxychlor	6.753	6.680	6.820	160.450	250.000	-35.8

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/17/2025 06/17/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	9.07	3.55
PEM	PEM	06/17/2025	15:25	PD088991.D	9.07	3.55
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	9.07	3.55
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	9.07	3.55
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	9.07	3.55
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	9.07	3.55
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	9.07	3.55
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	9.07	3.55
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	9.07	3.55
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	9.07	3.55
I.BLK	I.BLK	07/01/2025	11:59	PD089264.D	9.07	3.55
PEM	PEM	07/01/2025	12:13	PD089265.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/01/2025	13:35	PD089266.D	9.08	3.56
PB168672BL	PB168672BL	07/01/2025	14:33	PD089270.D	9.07	3.55
PB168672BS	PB168672BS	07/01/2025	16:23	PD089275.D	9.08	3.56
I.BLK	I.BLK	07/01/2025	16:37	PD089276.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/01/2025	16:50	PD089277.D	9.07	3.55
TP-76	Q2458-01	07/01/2025	18:26	PD089284.D	9.07	3.55
TP-55	Q2458-02	07/01/2025	18:40	PD089285.D	9.07	3.55
TP-68	Q2458-03	07/01/2025	18:53	PD089286.D	9.07	3.55
I.BLK	I.BLK	07/01/2025	19:07	PD089287.D	9.07	3.55
PEM	PEM	07/01/2025	19:21	PD089288.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/01/2025	19:34	PD089289.D	9.07	3.55
TP-67	Q2458-04	07/01/2025	20:15	PD089290.D	9.07	3.55
TP-67MS	Q2458-04MS	07/01/2025	20:29	PD089291.D	9.07	3.55
TP-67MSD	Q2458-04MSD	07/01/2025	20:43	PD089292.D	9.07	3.55
TP-66	Q2458-05	07/01/2025	20:57	PD089293.D	9.07	3.55
TP-60	Q2458-06	07/01/2025	21:10	PD089294.D	9.07	3.55
TP-62	Q2458-07	07/01/2025	21:24	PD089295.D	9.07	3.55
TP-63	Q2458-08	07/01/2025	21:37	PD089296.D	9.07	3.55
TP-59	Q2458-09	07/01/2025	21:51	PD089297.D	9.07	3.55
I.BLK	I.BLK	07/01/2025	22:05	PD089298.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/01/2025	22:59	PD089299.D	9.07	3.55
I.BLK	I.BLK	07/03/2025	09:19	PD089326.D	9.08	3.55
PEM	PEM	07/03/2025	09:32	PD089327.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/03/2025	09:46	PD089328.D	9.07	3.55
PB168718BL	PB168718BL	07/03/2025	13:55	PD089329.D	9.08	3.56
PB168718BS	PB168718BS	07/03/2025	14:09	PD089330.D	9.08	3.55
PB168718BSD	PB168718BSD	07/03/2025	14:27	PD089331.D	9.08	3.56
FB-06272025	Q2458-10	07/03/2025	14:40	PD089332.D	9.08	3.55
I.BLK	I.BLK	07/03/2025	15:48	PD089337.D	9.08	3.55
PSTDCCC050	PSTDCCC050	07/03/2025	16:02	PD089338.D	9.07	3.55

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Analytical Sequence

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/17/2025 06/17/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	8.07	2.88
PEM	PEM	06/17/2025	15:25	PD088991.D	8.07	2.88
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	8.07	2.88
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	8.07	2.88
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	8.07	2.88
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	8.07	2.88
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	8.07	2.88
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	8.07	2.88
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	8.07	2.88
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	8.07	2.88
I.BLK	I.BLK	07/01/2025	11:59	PD089264.D	8.07	2.88
PEM	PEM	07/01/2025	12:13	PD089265.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/01/2025	13:35	PD089266.D	8.07	2.88
PB168672BL	PB168672BL	07/01/2025	14:33	PD089270.D	8.07	2.88
PB168672BS	PB168672BS	07/01/2025	16:23	PD089275.D	8.07	2.88
I.BLK	I.BLK	07/01/2025	16:37	PD089276.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/01/2025	16:50	PD089277.D	8.07	2.88
TP-76	Q2458-01	07/01/2025	18:26	PD089284.D	8.07	2.88
TP-55	Q2458-02	07/01/2025	18:40	PD089285.D	8.07	2.88
TP-68	Q2458-03	07/01/2025	18:53	PD089286.D	8.07	2.88
I.BLK	I.BLK	07/01/2025	19:07	PD089287.D	8.07	2.88
PEM	PEM	07/01/2025	19:21	PD089288.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/01/2025	19:34	PD089289.D	8.07	2.88
TP-67	Q2458-04	07/01/2025	20:15	PD089290.D	8.07	2.88
TP-67MS	Q2458-04MS	07/01/2025	20:29	PD089291.D	8.07	2.88
TP-67MSD	Q2458-04MSD	07/01/2025	20:43	PD089292.D	8.07	2.88
TP-66	Q2458-05	07/01/2025	20:57	PD089293.D	8.07	2.88
TP-60	Q2458-06	07/01/2025	21:10	PD089294.D	8.07	2.88
TP-62	Q2458-07	07/01/2025	21:24	PD089295.D	8.07	2.88
TP-63	Q2458-08	07/01/2025	21:37	PD089296.D	8.07	2.88
TP-59	Q2458-09	07/01/2025	21:51	PD089297.D	8.07	2.88
I.BLK	I.BLK	07/01/2025	22:05	PD089298.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/01/2025	22:59	PD089299.D	8.07	2.88
I.BLK	I.BLK	07/03/2025	09:19	PD089326.D	8.07	2.88
PEM	PEM	07/03/2025	09:32	PD089327.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/03/2025	09:46	PD089328.D	8.07	2.88
PB168718BL	PB168718BL	07/03/2025	13:55	PD089329.D	8.08	2.88
PB168718BS	PB168718BS	07/03/2025	14:09	PD089330.D	8.07	2.88
PB168718BSD	PB168718BSD	07/03/2025	14:27	PD089331.D	8.07	2.88
FB-06272025	Q2458-10	07/03/2025	14:40	PD089332.D	8.07	2.88
I.BLK	I.BLK	07/03/2025	15:48	PD089337.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/03/2025	16:02	PD089338.D	8.07	2.88

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Analytical Sequence

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168672BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168672BS **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
4,4'-DDD	1	6.71	6.66	6.76	18.7	4.4
	2	5.93	5.88	5.98	17.9	
4,4'-DDT	1	7.03	6.98	7.08	16.3	2.5
	2	6.19	6.14	6.24	15.9	
alpha-BHC	1	4.01	3.96	4.06	18.7	0.5
	2	3.39	3.34	3.44	18.6	
Aldrin	1	5.28	5.23	5.33	18.7	1.6
	2	4.37	4.32	4.42	18.4	
beta-BHC	1	4.52	4.47	4.57	17.7	1.7
	2	4.03	3.98	4.08	18.0	
alpha-Chlordane	1	6.03	5.98	6.08	18.1	0.6
	2	5.19	5.14	5.24	18.2	
4,4'-DDE	1	6.20	6.15	6.25	18.4	2.8
	2	5.38	5.33	5.43	17.9	
Endosulfan II	1	6.79	6.74	6.84	17.9	0.6
	2	6.08	6.03	6.13	17.8	
Endrin aldehyde	1	6.92	6.87	6.97	17.8	1.1
	2	6.26	6.21	6.31	17.6	
Endosulfan sulfate	1	7.16	7.11	7.21	17.7	0.6
	2	6.48	6.43	6.53	17.6	
Methoxychlor	1	7.50	7.45	7.55	16.3	1.8
	2	6.76	6.71	6.81	16.6	
Endrin ketone	1	7.64	7.59	7.69	18.3	2.8
	2	6.99	6.94	7.04	17.8	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	18.6	1.1
	2	3.73	3.68	3.78	18.4	
Heptachlor	1	4.94	4.89	4.99	18.2	3.4
	2	4.08	4.03	4.13	17.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168672BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168672BS **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
delta-BHC	1	4.77	4.72	4.82	19.2	4.8
	2	4.26	4.21	4.31	18.3	
Heptachlor epoxide	1	5.70	5.65	5.75	18.0	7
	2	4.87	4.82	4.92	19.3	
Endosulfan I	1	6.08	6.03	6.13	18.3	0.5
	2	5.25	5.20	5.30	18.4	
gamma-Chlordane	1	5.95	5.90	6.00	18.5	3.3
	2	5.13	5.08	5.18	17.9	
Dieldrin	1	6.35	6.30	6.40	18.4	2.2
	2	5.51	5.46	5.56	18.0	
Endrin	1	6.58	6.53	6.63	16.5	0
	2	5.79	5.74	5.84	16.5	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168718BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168718BS **Date(s) Analyzed:** 07/03/2025 07/03/2025

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 aldehyde	1	6.92	6.87	6.97	0.56	1.7
	2	6.26	6.21	6.31	0.55	
Methoxychlor	1	7.50	7.45	7.55	0.42	5.3
	2	6.75	6.70	6.80	0.44	
Endrin ketone	1	7.63	7.58	7.68	0.56	0.6
	2	6.99	6.94	7.04	0.55	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.55	1
	2	3.73	3.68	3.78	0.56	
Heptachlor	1	4.93	4.88	4.98	0.54	2.3
	2	4.08	4.03	4.13	0.52	
Heptachlor epoxide	1	5.69	5.64	5.74	0.55	0.5
	2	4.87	4.82	4.92	0.55	
gamma-Chlordane	1	5.95	5.90	6.00	0.57	4.4
	2	5.13	5.08	5.18	0.55	
Endrin	1	6.58	6.53	6.63	0.49	2.8
	2	5.79	5.74	5.84	0.48	
4,4'-DDD	1	6.71	6.66	6.76	0.59	5.1
	2	5.93	5.88	5.98	0.56	
4,4'-DDE	1	6.20	6.15	6.25	0.56	2.5
	2	5.38	5.33	5.43	0.55	
4,4'-DDT	1	7.02	6.97	7.07	0.48	1.3
	2	6.18	6.13	6.23	0.47	
alpha-BHC	1	4.00	3.95	4.05	0.56	1
	2	3.39	3.34	3.44	0.56	
Aldrin	1	5.27	5.22	5.32	0.56	1.3
	2	4.37	4.32	4.42	0.56	
alpha-Chlordane	1	6.03	5.98	6.08	0.56	1.9
	2	5.19	5.14	5.24	0.55	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168718BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168718BS **Date(s) Analyzed:** 07/03/2025 07/03/2025

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
Endosulfan II	1	6.79	6.74	6.84	0.57	3.2
	2	6.08	6.03	6.13	0.55	
Endosulfan sulfate	1	7.15	7.10	7.20	0.55	0.6
	2	6.48	6.43	6.53	0.55	
beta-BHC	1	4.52	4.47	4.57	0.53	2.8
	2	4.03	3.98	4.08	0.54	
delta-BHC	1	4.77	4.72	4.82	0.59	6
	2	4.26	4.21	4.31	0.55	
Endosulfan I	1	6.08	6.03	6.13	0.56	0.8
	2	5.25	5.20	5.30	0.55	
Dieldrin	1	6.35	6.30	6.40	0.57	2.4
	2	5.51	5.46	5.56	0.55	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168718BSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168718BSD **Date(s) Analyzed:** 07/03/2025 07/03/2025

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
4,4'-DDD	1	6.71	6.66	6.76	0.58	4.1
	2	5.93	5.88	5.98	0.56	
4,4'-DDT	1	7.03	6.98	7.08	0.47	0.6
	2	6.18	6.13	6.23	0.47	
alpha-BHC	1	4.01	3.96	4.06	0.55	1.1
	2	3.39	3.34	3.44	0.56	
Aldrin	1	5.28	5.23	5.33	0.56	0.6
	2	4.37	4.32	4.42	0.55	
beta-BHC	1	4.52	4.47	4.57	0.52	2.8
	2	4.03	3.98	4.08	0.54	
alpha-Chlordane	1	6.03	5.98	6.08	0.55	1.4
	2	5.19	5.14	5.24	0.54	
4,4'-DDE	1	6.20	6.15	6.25	0.55	1.2
	2	5.38	5.33	5.43	0.55	
Endosulfan II	1	6.79	6.74	6.84	0.56	2.7
	2	6.08	6.03	6.13	0.54	
Endrin aldehyde	1	6.92	6.87	6.97	0.55	0.8
	2	6.26	6.21	6.31	0.55	
Endosulfan sulfate	1	7.16	7.11	7.21	0.55	0.1
	2	6.48	6.43	6.53	0.55	
Methoxychlor	1	7.50	7.45	7.55	0.42	5.6
	2	6.76	6.71	6.81	0.44	
Endrin ketone	1	7.64	7.59	7.69	0.55	0.6
	2	6.99	6.94	7.04	0.55	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	0.55	1.2
	2	3.73	3.68	3.78	0.55	
Heptachlor	1	4.94	4.89	4.99	0.53	1.4
	2	4.08	4.03	4.13	0.52	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168718BSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168718BSD **Date(s) Analyzed:** 07/03/2025 07/03/2025

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
delta-BHC	1	4.77	4.72	4.82	0.57	3.9
	2	4.26	4.21	4.31	0.55	
Heptachlor epoxide	1	5.70	5.65	5.75	0.54	1.5
	2	4.87	4.82	4.92	0.55	
Endosulfan I	1	6.08	6.03	6.13	0.55	0.1
	2	5.25	5.20	5.30	0.55	
gamma-Chlordane	1	5.95	5.90	6.00	0.56	3.3
	2	5.13	5.08	5.18	0.55	
Dieldrin	1	6.35	6.30	6.40	0.56	2
	2	5.51	5.46	5.56	0.55	
Endrin	1	6.58	6.53	6.63	0.48	1
	2	5.79	5.74	5.84	0.48	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-60

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-06 **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
4,4'-DDT	1	7.02	6.97	7.07	0.15	80.9
	2	6.18	6.13	6.23	0.36	
gamma-Chlordane	1	5.94	5.89	5.99	0.46	35.9
	2	5.12	5.07	5.17	0.32	
alpha-Chlordane	1	6.03	5.98	6.08	0.90	43.7
	2	5.19	5.14	5.24	0.58	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-63

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-08 **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
4,4'-DDD	1	6.70	6.65	6.75	0.41	25.2
	2	5.93	5.88	5.98	0.32	
4,4'-DDT	1	7.02	6.97	7.07	0.24	57.6
	2	6.18	6.13	6.23	0.44	
gamma-Chlordane	1	5.94	5.89	5.99	0.40	31.4
	2	5.12	5.07	5.17	0.29	
alpha-Chlordane	1	6.03	5.98	6.08	0.58	22.7
	2	5.19	5.14	5.24	0.47	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-66

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-05 **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
4,4'-DDT	1	7.02	6.97	7.07	0.24	48.8
	2	6.18	6.13	6.23	0.40	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-67

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-04 **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
gamma-Chlordane	1	5.94	5.89	5.99	0.29	20
	2	5.13	5.08	5.18	0.23	
alpha-Chlordane	1	6.03	5.98	6.08	0.48	48.1
	2	5.19	5.14	5.24	0.29	
4,4'-DDE	1	6.20	6.15	6.25	0.21	49.7
	2	5.37	5.32	5.42	0.34	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-67MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-04MS **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
4,4'-DDD	1	6.71	6.66	6.76	18.4	7.9
	2	5.93	5.88	5.98	17.0	
4,4'-DDT	1	7.02	6.97	7.07	14.0	1.4
	2	6.18	6.13	6.23	14.2	
4,4'-DDE	1	6.20	6.15	6.25	18.0	0.6
	2	5.38	5.33	5.43	17.9	
Endosulfan II	1	6.79	6.74	6.84	17.1	0.6
	2	6.08	6.03	6.13	17.2	
Endrin aldehyde	1	6.92	6.87	6.97	16.8	1.2
	2	6.26	6.21	6.31	16.6	
Endosulfan sulfate	1	7.15	7.10	7.20	16.4	1.8
	2	6.48	6.43	6.53	16.1	
Methoxychlor	1	7.49	7.44	7.54	13.4	0.7
	2	6.75	6.70	6.80	13.3	
Endrin ketone	1	7.63	7.58	7.68	17.2	5.4
	2	6.99	6.94	7.04	16.3	
alpha-BHC	1	4.00	3.95	4.05	17.7	0
	2	3.39	3.34	3.44	17.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	17.5	0
	2	3.73	3.68	3.78	17.5	
Heptachlor	1	4.93	4.88	4.98	16.5	1.2
	2	4.08	4.03	4.13	16.3	
Aldrin	1	5.27	5.22	5.32	18.0	0.6
	2	4.37	4.32	4.42	17.9	
beta-BHC	1	4.52	4.47	4.57	17.3	1.7
	2	4.03	3.98	4.08	17.6	
delta-BHC	1	4.76	4.71	4.81	17.9	5.7
	2	4.26	4.21	4.31	16.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-67MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-04MS **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
Heptachlor epoxide	1	5.69	5.64	5.74	17.6	3.4
	2	4.87	4.82	4.92	18.2	
Endosulfan I	1	6.07	6.02	6.12	17.8	1.1
	2	5.25	5.20	5.30	17.6	
gamma-Chlordane	1	5.94	5.89	5.99	18.2	0.5
	2	5.13	5.08	5.18	18.3	
alpha-Chlordane	1	6.03	5.98	6.08	18.0	0.6
	2	5.19	5.14	5.24	17.9	
Dieldrin	1	6.35	6.30	6.40	17.6	0.6
	2	5.51	5.46	5.56	17.7	
Endrin	1	6.57	6.52	6.62	16.6	1.8
	2	5.79	5.74	5.84	16.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-67MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-04MSD **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
Endosulfan II	1	6.79	6.74	6.84	17.3	0.6
	2	6.08	6.03	6.13	17.4	
4,4'-DDD	1	6.71	6.66	6.76	19.0	8.8
	2	5.93	5.88	5.98	17.4	
4,4'-DDT	1	7.02	6.97	7.07	14.7	2
	2	6.18	6.13	6.23	15.0	
Endrin aldehyde	1	6.92	6.87	6.97	17.3	0.6
	2	6.26	6.21	6.31	17.2	
Endosulfan sulfate	1	7.15	7.10	7.20	17.1	1.2
	2	6.48	6.43	6.53	16.9	
Methoxychlor	1	7.49	7.44	7.54	13.8	2.9
	2	6.75	6.70	6.80	14.2	
Endrin ketone	1	7.63	7.58	7.68	17.7	4
	2	6.99	6.94	7.04	17.0	
alpha-BHC	1	4.00	3.95	4.05	18.2	0.6
	2	3.39	3.34	3.44	18.1	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.2	1.1
	2	3.73	3.68	3.78	18.0	
Heptachlor	1	4.93	4.88	4.98	16.9	0.6
	2	4.08	4.03	4.13	16.8	
Aldrin	1	5.27	5.22	5.32	18.2	0.6
	2	4.37	4.32	4.42	18.1	
beta-BHC	1	4.52	4.47	4.57	17.4	2.8
	2	4.03	3.98	4.08	17.9	
delta-BHC	1	4.76	4.71	4.81	19.0	6.5
	2	4.26	4.21	4.31	17.8	
Heptachlor epoxide	1	5.69	5.64	5.74	17.7	3.3
	2	4.87	4.82	4.92	18.3	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-67MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-04MSD **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
Endosulfan I	1	6.07	6.02	6.12	17.9	0
	2	5.25	5.20	5.30	17.9	
gamma-Chlordane	1	5.95	5.90	6.00	18.2	1.1
	2	5.13	5.08	5.18	18.4	
alpha-Chlordane	1	6.03	5.98	6.08	18.2	1.1
	2	5.19	5.14	5.24	18.0	
4,4'-DDE	1	6.20	6.15	6.25	18.0	0.6
	2	5.38	5.33	5.43	17.9	
Dieldrin	1	6.35	6.30	6.40	17.8	0.6
	2	5.51	5.46	5.56	17.9	
Endrin	1	6.57	6.52	6.62	16.9	1.8
	2	5.79	5.74	5.84	17.2	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-76

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-01 **Date(s) Analyzed:** 07/01/2025 07/01/2025

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
4,4'-DDT	1	7.03	6.98	7.08	0.51	80
	2	6.18	6.13	6.23	1.20	
Dieldrin	1	6.35	6.30	6.40	0.50	117.2
	2	5.51	5.46	5.56	1.90	
Endrin	1	6.58	6.53	6.63	0.66	8.1
	2	5.78	5.73	5.83	0.61	

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LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			Gasoline Range Organics	8015D			07/01/25	

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LAB CHRONICLE

			PCB	8082A		07/01/25	07/01/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/02/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/01/25	
			PCB	8082A		07/02/25	07/02/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-63								
Q2458-08	TP-63	SOIL	Aroclor-1254	8.30	J	3.70	19.6	ug/kg
			Total Concentration:	**8.300**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.6 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
PO111936.D	1	07/01/25 08:30	07/01/25 17:02	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	18.7	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.7	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.7	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.7	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.7	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.7	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.7	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.7	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.8		32 - 175	64%	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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	91.4 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
PO111937.D	1	07/01/25 08:30	07/01/25 17:19	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.6	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.6	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.6	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.6	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.6	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.6	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.6	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.6	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.3		32 - 144	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.9		32 - 175	64%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	92.3 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
PO111940.D	1	07/01/25 08:30	07/01/25 18:12	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.4	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.4	ug/kg
11141-16-5	Aroclor-1232	4.00	U	4.00	18.4	ug/kg
53469-21-9	Aroclor-1242	4.30	U	4.30	18.4	ug/kg
12672-29-6	Aroclor-1248	6.40	U	6.40	18.4	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.4	ug/kg
37324-23-5	Aroclor-1262	5.40	U	5.40	18.4	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.4	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		32 - 144	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.3		32 - 175	62%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.06 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
PO111941.D	1	07/01/25 08:30	07/01/25 18:29	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	18.9	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	18.9	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.9	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	18.9	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	18.9	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	18.9	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	18.9	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.9	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	18.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.6		32 - 175	73%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.3 Decanted:
Sample Wt/Vol:	30.06 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
PO111942.D	1	07/01/25 08:30	07/01/25 18:47	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.2	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.2	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.2	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.2	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.2	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.2	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.2	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		32 - 144	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		32 - 175	76%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	92.5 Decanted:
Sample Wt/Vol:	30.05 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
PO111943.D	1	07/01/25 08:30	07/01/25 19:04	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.3	ug/kg
11104-28-2	Aroclor-1221	4.30	U	4.30	18.3	ug/kg
11141-16-5	Aroclor-1232	4.00	U	4.00	18.3	ug/kg
53469-21-9	Aroclor-1242	4.30	U	4.30	18.3	ug/kg
12672-29-6	Aroclor-1248	6.40	U	6.40	18.3	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.3	ug/kg
37324-23-5	Aroclor-1262	5.40	U	5.40	18.3	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.3	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.5		32 - 144	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.8		32 - 175	69%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	91.1 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
PO111950.D	1	07/01/25 08:30	07/01/25 22:31	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.6	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.6	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.6	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.6	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.6	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.6	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.6	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.6	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.0		32 - 144	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.4		32 - 175	77%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.4 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
PO111951.D	1	07/01/25 08:30	07/01/25 22:48	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.6	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.6	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.6	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.6	ug/kg
11097-69-1	Aroclor-1254	8.30	J	3.70	19.6	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.6	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.6	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		32 - 144	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.2		32 - 175	76%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	76.6 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
PO111976.D	1	07/01/25 08:30	07/02/25 13:37	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.20	U	5.20	22.2	ug/kg
11104-28-2	Aroclor-1221	5.30	U	5.30	22.2	ug/kg
11141-16-5	Aroclor-1232	4.90	U	4.90	22.2	ug/kg
53469-21-9	Aroclor-1242	5.20	U	5.20	22.2	ug/kg
12672-29-6	Aroclor-1248	7.70	U	7.70	22.2	ug/kg
11097-69-1	Aroclor-1254	4.20	U	4.20	22.2	ug/kg
37324-23-5	Aroclor-1262	6.50	U	6.50	22.2	ug/kg
11100-14-4	Aroclor-1268	4.70	U	4.70	22.2	ug/kg
11096-82-5	Aroclor-1260	4.20	U	4.20	22.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.4		32 - 144	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.2		32 - 175	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	950 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
PP073474.D	1	07/02/25 12:10	07/02/25 21:47	PB168704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.10	U	0.10	0.53	ug/L
11104-28-2	Aroclor-1221	0.14	U	0.14	0.53	ug/L
11141-16-5	Aroclor-1232	0.10	U	0.10	0.53	ug/L
53469-21-9	Aroclor-1242	0.13	U	0.13	0.53	ug/L
12672-29-6	Aroclor-1248	0.075	U	0.075	0.53	ug/L
11097-69-1	Aroclor-1254	0.099	U	0.099	0.53	ug/L
37324-23-5	Aroclor-1262	0.15	U	0.15	0.53	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.53	ug/L
11096-82-5	Aroclor-1260	0.085	U	0.085	0.53	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.5		30 - 173	117%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.4		10 - 173	82%	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

QC SUMMARY

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PO111586.D	PIBLK-PO111586.D	Tetrachloro-m-xyl	1	20	20.3	102		60	140
		Decachlorobiphen	1	20	20.7	104		60	140
		Tetrachloro-m-xyl	2	20	19.0	95		60	140
		Decachlorobiphen	2	20	20.5	103		60	140
I.BLK-PO111933.D	PIBLK-PO111933.D	Tetrachloro-m-xyl	1	20	18.8	94		60	140
		Decachlorobiphen	1	20	17.1	86		60	140
		Tetrachloro-m-xyl	2	20	17.6	88		60	140
		Decachlorobiphen	2	20	18.4	92		60	140
PB168671BL	PB168671BL	Tetrachloro-m-xyl	1	20	20.0	100		32	144
		Decachlorobiphen	1	20	18.7	94		32	175
		Tetrachloro-m-xyl	2	20	18.8	94		32	144
		Decachlorobiphen	2	20	19.9	100		32	175
PB168671BS	PB168671BS	Tetrachloro-m-xyl	1	20	20.1	100		32	144
		Decachlorobiphen	1	20	19.4	97		32	175
		Tetrachloro-m-xyl	2	20	18.7	93		32	144
		Decachlorobiphen	2	20	20.5	102		32	175
Q2458-01	TP-76	Tetrachloro-m-xyl	1	20	20.0	100		32	144
		Decachlorobiphen	1	20	11.7	59		32	175
		Tetrachloro-m-xyl	2	20	18.5	93		32	144
		Decachlorobiphen	2	20	12.8	64		32	175
Q2458-02	TP-55	Tetrachloro-m-xyl	1	20	19.3	96		32	144
		Decachlorobiphen	1	20	10.9	54		32	175
		Tetrachloro-m-xyl	2	20	18.0	90		32	144
		Decachlorobiphen	2	20	12.9	64		32	175
Q2458-02MS	TP-55MS	Tetrachloro-m-xyl	1	20	19.1	95		32	144
		Decachlorobiphen	1	20	12.7	63		32	175
		Tetrachloro-m-xyl	2	20	17.1	86		32	144
		Decachlorobiphen	2	20	15.2	76		32	175
Q2458-02MSD	TP-55MSD	Tetrachloro-m-xyl	1	20	20.4	102		32	144
		Decachlorobiphen	1	20	12.8	64		32	175
		Tetrachloro-m-xyl	2	20	18.6	93		32	144
		Decachlorobiphen	2	20	15.3	77		32	175
Q2458-03	TP-68	Tetrachloro-m-xyl	1	20	18.5	92		32	144
		Decachlorobiphen	1	20	8.93	45		32	175
		Tetrachloro-m-xyl	2	20	16.5	82		32	144
		Decachlorobiphen	2	20	12.3	62		32	175
Q2458-04	TP-67	Tetrachloro-m-xyl	1	20	18.9	94		32	144
		Decachlorobiphen	1	20	12.4	62		32	175
		Tetrachloro-m-xyl	2	20	18.3	91		32	144
		Decachlorobiphen	2	20	14.6	73		32	175
Q2458-05	TP-66	Tetrachloro-m-xyl	1	20	19.6	98		32	144

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
Q2458-05	TP-66	Decachlorobiphen	1	20	12.4	62		32	175
		Tetrachloro-m-xyl	2	20	18.6	93		32	144
		Decachlorobiphen	2	20	15.3	76		32	175
Q2458-06	TP-60	Tetrachloro-m-xyl	1	20	20.5	103		32	144
		Decachlorobiphen	1	20	10.7	53		32	175
		Tetrachloro-m-xyl	2	20	19.4	97		32	144
		Decachlorobiphen	2	20	13.8	69		32	175
I.BLK-PO111949.D	PIBLK-PO111949.D	Tetrachloro-m-xyl	1	20	19.0	95		60	140
		Decachlorobiphen	1	20	15.9	79		60	140
		Tetrachloro-m-xyl	2	20	17.6	88		60	140
		Decachlorobiphen	2	20	18.1	90		60	140
Q2458-07	TP-62	Tetrachloro-m-xyl	1	20	19.0	95		32	144
		Decachlorobiphen	1	20	13.5	67		32	175
		Tetrachloro-m-xyl	2	20	17.6	88		32	144
		Decachlorobiphen	2	20	15.4	77		32	175
Q2458-08	TP-63	Tetrachloro-m-xyl	1	20	19.4	97		32	144
		Decachlorobiphen	1	20	11.9	59		32	175
		Tetrachloro-m-xyl	2	20	18.1	90		32	144
		Decachlorobiphen	2	20	15.2	76		32	175
I.BLK-PO111965.D	PIBLK-PO111965.D	Tetrachloro-m-xyl	1	20	20.1	101		60	140
		Decachlorobiphen	1	20	17.9	89		60	140
		Tetrachloro-m-xyl	2	20	18.3	92		60	140
		Decachlorobiphen	2	20	18.9	95		60	140
I.BLK-PO111971.D	PIBLK-PO111971.D	Tetrachloro-m-xyl	1	20	20.1	101		60	140
		Decachlorobiphen	1	20	18.2	91		60	140
		Tetrachloro-m-xyl	2	20	18.8	94		60	140
		Decachlorobiphen	2	20	19.4	97		60	140
Q2458-09	TP-59	Tetrachloro-m-xyl	1	20	20.4	102		32	144
		Decachlorobiphen	1	20	14.7	74		32	175
		Tetrachloro-m-xyl	2	20	19.2	96		32	144
		Decachlorobiphen	2	20	16.2	81		32	175
I.BLK-PO111985.D	PIBLK-PO111985.D	Tetrachloro-m-xyl	1	20	20.3	102		60	140
		Decachlorobiphen	1	20	17.7	89		60	140
		Tetrachloro-m-xyl	2	20	19.2	96		60	140
		Decachlorobiphen	2	20	20.2	101		60	140
PB168704BL	PB168704BL	Tetrachloro-m-xyl	1	20	19.7	98		30	173
		Decachlorobiphen	1	20	17.4	87		10	173
		Tetrachloro-m-xyl	2	20	18.6	93		30	173
		Decachlorobiphen	2	20	19.8	99		10	173
PB168704BS	PB168704BS	Tetrachloro-m-xyl	1	20	19.7	99		30	173
		Decachlorobiphen	1	20	18.1	91		10	173

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
PB168704BS	PB168704BS	Tetrachloro-m-xyl	2	20	18.4	92		30	173
		Decachlorobiphen	2	20	20.7	104		10	173
PB168704BSD	PB168704BSD	Tetrachloro-m-xyl	1	20	19.6	98		30	173
		Decachlorobiphen	1	20	18.0	90		10	173
		Tetrachloro-m-xyl	2	20	18.3	91		30	173
		Decachlorobiphen	2	20	20.6	103		10	173
I.BLK-PO111999.D	PIBLK-PO111999.D	Tetrachloro-m-xyl	1	20	20.6	103		60	140
		Decachlorobiphen	1	20	17.1	85		60	140
		Tetrachloro-m-xyl	2	20	19.0	95		60	140
		Decachlorobiphen	2	20	19.0	95		60	140
I.BLK-PP073412.D	PIBLK-PP073412.D	Tetrachloro-m-xyl	1	20	16.6	83		60	140
		Decachlorobiphen	1	20	15.7	78		60	140
		Tetrachloro-m-xyl	2	20	16.5	83		60	140
		Decachlorobiphen	2	20	16.5	82		60	140
I.BLK-PP073467.D	PIBLK-PP073467.D	Tetrachloro-m-xyl	1	20	16.7	84		60	140
		Decachlorobiphen	1	20	15.8	79		60	140
		Tetrachloro-m-xyl	2	20	18.1	90		60	140
		Decachlorobiphen	2	20	18.3	91		60	140
Q2458-10	FB-06272025	Tetrachloro-m-xyl	1	20	20.0	100		30	173
		Decachlorobiphen	1	20	12.6	63		10	173
		Tetrachloro-m-xyl	2	20	23.5	117		30	173
		Decachlorobiphen	2	20	16.4	82		10	173
I.BLK-PP073482.D	PIBLK-PP073482.D	Tetrachloro-m-xyl	1	20	15.8	79		60	140
		Decachlorobiphen	1	20	14.4	72		60	140
		Tetrachloro-m-xyl	2	20	17.8	89		60	140
		Decachlorobiphen	2	20	18.7	93		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PO111938.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID:	**Q2458-02MS (Column 1)**	**Client Sample ID:**		**TP-55MS**								
	AR1016	181.9	0	150	ug/kg	82				55	146	
	AR1260	181.9	0	133	ug/kg	73				54	119	
Lab Sample ID:	**Q2458-02MS (Column 2)**	**Client Sample ID:**		**TP-55MS**								
	AR1016	181.9	0	155	ug/kg	85				55	146	
	AR1260	181.9	0	139	ug/kg	76				54	119	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	Q2458	**Analytical Method:**	8082A
Client:	CDM Smith	**DataFile :**	PO111939.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID:	**Q2458-02MSD (Column 1)**	**Client Sample ID:**		**TP-55MSD**								
	AR1016	182	0	172	ug/kg	95		15		55	146	15
	AR1260	182	0	133	ug/kg	73		0		54	119	15
Lab Sample ID:	**Q2458-02MSD (Column 2)**	**Client Sample ID:**		**TP-55MSD**								
	AR1016	182	0	157	ug/kg	86		1		55	146	15
	AR1260	182	0	141	ug/kg	77		1		54	119	15

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PO111935.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168671BS (Column 1)	AR1016	166.6	156	ug/kg	94				71	120	
	AR1260	166.6	167	ug/kg	100				65	130	
PB168671BS (Column 2)	AR1016	166.6	163	ug/kg	98				71	120	
	AR1260	166.6	162	ug/kg	97				65	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PO111987.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168704BS (Column 1)	AR1016	5	4.70	ug/L	94				77	107	
	AR1260	5	4.80	ug/L	96				66	113	
PB168704BS (Column 2)	AR1016	5	5.00	ug/L	100				77	107	
	AR1260	5	5.00	ug/L	100				66	113	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PO111988.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168704BSD (Column 1)	AR1016	5	4.60	ug/L	92	2			77	107	20
	AR1260	5	4.60	ug/L	92	4			66	113	20
PB168704BSD (Column 2)	AR1016	5	4.90	ug/L	98	2			77	107	20
	AR1260	5	5.00	ug/L	100	0			66	113	20

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168671BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab Sample ID: PB168671BL | Lab File ID: PO111934.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/01/2025

Date Analyzed (1): 07/01/2025 | Date Analyzed (2): 07/01/2025

Time Analyzed (1): 16:27 | Time Analyzed (2): 16:27

Instrument ID (1): ECD_O | Instrument ID (2): ECD_O

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
PB168671BS	PB168671BS	PO111935.D	07/01/2025	07/01/2025
TP-76	Q2458-01	PO111936.D	07/01/2025	07/01/2025
TP-55	Q2458-02	PO111937.D	07/01/2025	07/01/2025
TP-55MS	Q2458-02MS	PO111938.D	07/01/2025	07/01/2025
TP-55MSD	Q2458-02MSD	PO111939.D	07/01/2025	07/01/2025
TP-68	Q2458-03	PO111940.D	07/01/2025	07/01/2025
TP-67	Q2458-04	PO111941.D	07/01/2025	07/01/2025
TP-66	Q2458-05	PO111942.D	07/01/2025	07/01/2025
TP-60	Q2458-06	PO111943.D	07/01/2025	07/01/2025
TP-62	Q2458-07	PO111950.D	07/01/2025	07/01/2025
TP-63	Q2458-08	PO111951.D	07/01/2025	07/01/2025
TP-59	Q2458-09	PO111976.D	07/02/2025	07/02/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168704BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab Sample ID: PB168704BL | Lab File ID: PO111986.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/02/2025

Date Analyzed (1): 07/02/2025 | Date Analyzed (2): 07/02/2025

Time Analyzed (1): 17:45 | Time Analyzed (2): 17:45

Instrument ID (1): ECD_O | Instrument ID (2): ECD_O

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
PB168704BS	PB168704BS	PO111987.D	07/02/2025	07/02/2025
PB168704BSD	PB168704BSD	PO111988.D	07/02/2025	07/02/2025
FB-06272025	Q2458-10	PP073474.D	07/02/2025	07/02/2025

COMMENTS:

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_O **Calibration Date(s):** 06/11/2025 06/11/2025

Calibration Times: 10:40 19:07

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

LAB FILE ID: RT 1000 = PO111587.D RT 750 = PO111588.D

RT 500 = PO111589.D RT 250 = PO111590.D RT 050 = PO111591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1016-2	(2)	4.78	4.79	4.78	4.79	4.78	4.78	4.68	4.88
Aroclor-1016-3	(3)	4.84	4.84	4.84	4.84	4.84	4.84	4.74	4.94
Aroclor-1016-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.22	5.22	5.22	5.22	5.22	5.22	5.12	5.32
Aroclor-1260-1	(1)	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Aroclor-1260-2	(2)	6.45	6.45	6.45	6.45	6.45	6.45	6.35	6.55
Aroclor-1260-3	(3)	6.81	6.81	6.81	6.81	6.81	6.81	6.71	6.91
Aroclor-1260-4	(4)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1260-5	(5)	7.32	7.32	7.32	7.32	7.32	7.32	7.22	7.42
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1242-1	(1)	4.77	4.77	4.77	4.76	4.77	4.77	4.67	4.87
Aroclor-1242-2	(2)	4.79	4.79	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1242-3	(3)	4.84	4.84	4.84	4.84	4.84	4.84	4.74	4.94
Aroclor-1242-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1242-5	(5)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1248-1	(1)	4.77	4.77	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1248-2	(2)	5.01	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-3	(3)	5.22	5.22	5.22	5.22	5.22	5.22	5.12	5.32
Aroclor-1248-4	(4)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1248-5	(5)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1254-1	(1)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1254-2	(2)	5.72	5.72	5.72	5.72	5.72	5.72	5.62	5.82
Aroclor-1254-3	(3)	6.12	6.13	6.13	6.13	6.12	6.13	6.03	6.23
Aroclor-1254-4	(4)	6.35	6.36	6.36	6.35	6.35	6.35	6.25	6.45
Aroclor-1254-5	(5)	6.77	6.78	6.78	6.77	6.77	6.77	6.67	6.87
Decachlorobiphenyl		8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1268-1	(1)	7.60	7.60	7.60	7.60	7.60	7.60	7.50	7.70
Aroclor-1268-2	(2)	7.67	7.67	7.67	7.67	7.66	7.67	7.57	7.77
Aroclor-1268-3	(3)	7.87	7.87	7.87	7.87	7.87	7.87	7.77	7.97
Aroclor-1268-4	(4)	8.16	8.16	8.16	8.16	8.16	8.16	8.06	8.26
Aroclor-1268-5	(5)	8.46	8.46	8.46	8.46	8.45	8.46	8.36	8.56

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene	3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_O **Calibration Date(s):** 06/11/2025 06/11/2025

Calibration Times: 10:40 19:07

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

LAB FILE ID: RT 1000 = PO111587.D RT 750 = PO111588.D

RT 500 = PO111589.D RT 250 = PO111590.D RT 050 = PO111591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1016-2	(2)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1016-3	(3)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-4	(4)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1016-5	(5)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1260-1	(1)	6.23	6.23	6.23	6.23	6.23	6.23	6.13	6.33
Aroclor-1260-2	(2)	6.42	6.42	6.42	6.42	6.42	6.42	6.32	6.52
Aroclor-1260-3	(3)	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Aroclor-1260-4	(4)	7.04	7.04	7.04	7.04	7.04	7.04	6.94	7.14
Aroclor-1260-5	(5)	7.28	7.28	7.28	7.28	7.28	7.28	7.18	7.38
Decachlorobiphenyl		8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1242-1	(1)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1242-2	(2)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1242-3	(3)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-4	(4)	5.03	5.03	5.03	5.03	5.03	5.03	4.93	5.13
Aroclor-1242-5	(5)	5.55	5.55	5.55	5.55	5.55	5.55	5.45	5.65
Decachlorobiphenyl		8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1248-1	(1)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1248-2	(2)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1248-3	(3)	5.03	5.03	5.03	5.03	5.03	5.03	4.93	5.13
Aroclor-1248-4	(4)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1248-5	(5)	5.59	5.59	5.59	5.59	5.59	5.59	5.49	5.69
Decachlorobiphenyl		8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1254-1	(1)	5.55	5.55	5.55	5.55	5.55	5.55	5.45	5.65
Aroclor-1254-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1254-3	(3)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1254-4	(4)	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
Aroclor-1254-5	(5)	6.74	6.74	6.74	6.74	6.74	6.74	6.64	6.84
Decachlorobiphenyl		8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1268-1	(1)	7.56	7.56	7.56	7.56	7.56	7.56	7.46	7.66
Aroclor-1268-2	(2)	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
Aroclor-1268-3	(3)	7.83	7.83	7.83	7.83	7.83	7.83	7.73	7.93
Aroclor-1268-4	(4)	8.12	8.12	8.12	8.12	8.12	8.12	8.02	8.22
Aroclor-1268-5	(5)	8.41	8.41	8.41	8.41	8.41	8.41	8.31	8.51

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_O

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/11/2025 06/11/2025
Calibration Times: 10:40 19:07

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

LAB FILE ID: CF 1000 = PO111587.D CF 750 = PO111588.D
CF 500 = PO111589.D CF 250 = PO111590.D CF 050 = PO111591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	220511854	230179169	244104994	255923844	242047420	238553456	6
Aroclor-1016-2	(2)	319525390	333752768	345607420	360231916	304600680	332743635	7
Aroclor-1016-3	(3)	218699222	228973452	241664208	255477324	205889780	230140797	8
Aroclor-1016-4	(4)	174886969	182974663	191580278	204290796	173581000	185462741	7
Aroclor-1016-5	(5)	177464979	184697736	193390828	207039800	170624200	186643509	8
Aroclor-1260-1	(1)	321794228	337454645	358028956	426721964	332609080	355321775	12
Aroclor-1260-2	(2)	433743230	452724105	474832224	506755684	494307920	472472633	6
Aroclor-1260-3	(3)	393522712	410790572	429624930	441759844	447671720	424673956	5
Aroclor-1260-4	(4)	282329615	299358140	315388464	327883556	347275780	314447111	8
Aroclor-1260-5	(5)	781713901	810719289	832144010	867226572	826835640	823727882	4
Decachlorobiphenyl		4901811500	5109294200	5313242720	5581051480	5340821400	5249244260	5
Tetrachloro-m-xylene		5558158730	5743696387	5927517640	6035511000	5532196200	5759415991	4
Aroclor-1242-1	(1)	189891715	199375873	208390472	218835528	190726000	201443918	6
Aroclor-1242-2	(2)	269264014	283815699	295038528	310860236	249854560	281766607	8
Aroclor-1242-3	(3)	185208795	198314185	205655032	216442696	188497160	198823574	6
Aroclor-1242-4	(4)	148912444	156458187	164284520	169958380	151372200	158197146	6
Aroclor-1242-5	(5)	154468521	166978497	176155118	183078792	155400820	167216350	8
Decachlorobiphenyl		4880711810	5081655560	5262786220	5522085600	4928788200	5135205478	5
Tetrachloro-m-xylene		5456812090	5681549133	5847202300	6031977960	5214216400	5646351577	6
Aroclor-1248-1	(1)	145884945	152954188	162370132	170480356	174637940	161265512	7
Aroclor-1248-2	(2)	193392956	203021513	214142790	221601180	245868320	215605352	9
Aroclor-1248-3	(3)	243691383	258111092	270734920	294861996	281294320	269738742	7
Aroclor-1248-4	(4)	355904013	376445483	398411334	426549232	441707040	399803420	9
Aroclor-1248-5	(5)	249802900	267040200	283633312	302535740	301041360	280810702	8
Decachlorobiphenyl		4929616300	5142061960	5420744260	5685225920	6003686400	5436266968	8
Tetrachloro-m-xylene		5626812480	5847124520	6076407960	6245856240	6492772200	6057794680	6
Aroclor-1254-1	(1)	375291496	390445984	409053510	418326128	532236220	425070668	15
Aroclor-1254-2	(2)	334554268	347730616	365467502	374564136	475325660	379528436	15
Aroclor-1254-3	(3)	528273778	541799637	566990470	566909168	652766900	571347991	8
Aroclor-1254-4	(4)	330811190	344690741	356705876	353681912	358524400	348882824	3
Aroclor-1254-5	(5)	481176015	491854427	511981248	504869196	570769000	512129977	7
Decachlorobiphenyl		5009210160	5167761240	5403649020	5380598200	6191612600	5430566244	8
Tetrachloro-m-xylene		5724223470	6030704747	6021777640	5926293200	6653717200	6071343251	6
Aroclor-1268-1	(1)	1033906302	1058286327	1096846802	1155194040	1288627080	1126572110	9

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	906036168	918687719	954310100	989229764	1117888140	977230378	9
Aroclor-1268-3	(3)	760320035	776861388	800241936	843634592	917077000	819626990	8
Aroclor-1268-4	(4)	324679419	326739527	344775706	356707332	367012100	343982817	5
Aroclor-1268-5	(5)	2115204224	2135729147	2187245170	2254511260	2409521900	2220442340	5
Decachlorobiphenyl		8820062120	9005455773	9339565760	9886719320	10604055600	9531171715	8
Tetrachloro-m-xylene		5944441710	6079157480	6269391520	6520960080	6795679200	6321925998	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_O

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/11/2025 06/11/2025
Calibration Times: 10:40 19:07

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

LAB FILE ID: CF 1000 = PO111587.D CF 750 = PO111588.D
CF 500 = PO111589.D CF 250 = PO111590.D CF 050 = PO111591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	180839726	189231809	196263600	204676936	212823680	196767150	6
Aroclor-1016-2	(2)	269525798	277038755	287808724	296313292	293716580	284880630	4
Aroclor-1016-3	(3)	141401189	146814288	152988496	158088464	151904200	150239327	4
Aroclor-1016-4	(4)	112384684	117918833	124672358	128074364	125886140	121787276	5
Aroclor-1016-5	(5)	145637432	151733320	158595618	164650128	175375940	159198488	7
Aroclor-1260-1	(1)	232933493	242290633	253160914	265400132	260795120	250916058	5
Aroclor-1260-2	(2)	272930024	283658681	293882326	306210008	313403160	294016840	6
Aroclor-1260-3	(3)	248293091	256892847	265761412	279567532	285382000	267179376	6
Aroclor-1260-4	(4)	171150736	180595663	190038668	201212768	207483680	190096303	8
Aroclor-1260-5	(5)	395557404	413148045	424269490	442012232	450112560	425019946	5
Decachlorobiphenyl		1664373530	1742647173	1808169220	1884747160	1788371000	1777661617	5
Tetrachloro-m-xylene		5585912110	5701804613	5792994800	5795065440	5210609600	5617277313	4
Aroclor-1242-1	(1)	152168573	159777101	166064310	176069720	159718720	162759685	5
Aroclor-1242-2	(2)	225834322	234974032	243469856	251904876	224121580	236060933	5
Aroclor-1242-3	(3)	119492390	123624105	129191264	135018820	120620420	125589400	5
Aroclor-1242-4	(4)	114585972	119959547	125650318	133140376	119457260	122558695	6
Aroclor-1242-5	(5)	141763911	149312545	155170630	161394704	141804460	149889250	6
Decachlorobiphenyl		1628957800	1697321880	1768741900	1847187720	1627451400	1713932140	6
Tetrachloro-m-xylene		5447566380	5592119960	5668881340	5704776560	4755587600	5433786368	7
Aroclor-1248-1	(1)	118834435	122872489	131279096	140544936	152890960	133284383	10
Aroclor-1248-2	(2)	160429628	168292228	179033076	186589356	196432880	178155434	8
Aroclor-1248-3	(3)	169865875	177833136	187951664	198291792	213246720	189437837	9
Aroclor-1248-4	(4)	200486745	209433661	222430720	237578848	271687720	228323539	12
Aroclor-1248-5	(5)	195830172	205941008	216128424	227994268	242930420	217764858	8
Decachlorobiphenyl		1644850390	1717850333	1805319940	1883765920	1992763800	1808910077	8
Tetrachloro-m-xylene		5458685310	5581768067	5723793620	5741246280	5688025000	5638703655	2
Aroclor-1254-1	(1)	296936934	303927659	319123596	320561628	374491800	323008323	9
Aroclor-1254-2	(2)	255453905	262352463	275811104	277251804	325698480	279313551	10
Aroclor-1254-3	(3)	392851690	400205872	416928596	411547332	473734340	419053566	8
Aroclor-1254-4	(4)	214635691	222689013	230857806	231773900	239050800	227801442	4
Aroclor-1254-5	(5)	301414788	308036695	323788090	319823096	374889540	325590442	9
Decachlorobiphenyl		1681329490	1723219680	1812787460	1794853560	2027152800	1807868598	7
Tetrachloro-m-xylene		5554099840	5630982267	5714907100	5492046840	5804310800	5639269369	2
Aroclor-1268-1	(1)	439189744	444186417	457911336	484649164	566087560	478404844	11

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	385991375	390586096	399904992	422505028	483522600	416502018	10
Aroclor-1268-3	(3)	289581994	294897103	304525684	324673600	371079040	316951484	10
Aroclor-1268-4	(4)	108353442	109112276	112870114	119224140	128726300	115657254	7
Aroclor-1268-5	(5)	686403257	694858911	706410288	735443232	800112960	724645730	6
Decachlorobiphenyl		2944164530	2997882747	3096344980	3278501400	3473378600	3158054451	7
Tetrachloro-m-xylene		5557311950	5631320067	5696482640	5807035360	5718379000	5682105803	2

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_O **Date(s) Analyzed:** 06/11/2025 06/11/2025

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	3.89	3.79	3.99	87078800
		2	3.98	3.88	4.08	64167800
		3	4.05	3.95	4.15	195036000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.05	3.95	4.15	151749000
		2	4.54	4.44	4.64	86221200
		3	4.79	4.69	4.89	162881000
		4	4.96	4.86	5.06	87019200
		5	5.00	4.90	5.10	56580600
Aroclor-1262	500	1	6.82	6.72	6.92	609876000
		2	7.32	7.22	7.42	941402000
		3	7.60	7.50	7.70	396622000
		4	7.66	7.56	7.76	657002000
		5	8.16	8.06	8.26	304668000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_O **Date(s) Analyzed:** 06/11/2025 06/11/2025

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	3.88	3.78	3.98	74673800
		2	3.97	3.87	4.07	55948800
		3	4.04	3.94	4.14	171830000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.04	3.94	4.14	132990000
		2	4.77	4.67	4.87	131791000
		3	4.94	4.84	5.04	69118200
		4	5.03	4.93	5.13	60484000
		5	5.20	5.10	5.30	66414600
Aroclor-1262	500	1	6.78	6.68	6.88	337664000
		2	7.28	7.18	7.38	465774000
		3	7.56	7.46	7.66	166285000
		4	7.63	7.53	7.73	277070000
		5	8.12	8.02	8.22	101619000

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_P **Calibration Date(s):** 07/01/2025 07/01/2025

Calibration Times: 14:04 21:30

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

LAB FILE ID: RT 1000 = PP073413.D RT 750 = PP073414.D

RT 500 = PP073415.D RT 250 = PP073416.D RT 050 = PP073417.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.65	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1016-2	(2)	5.67	5.66	5.67	5.66	5.66	5.66	5.56	5.76
Aroclor-1016-3	(3)	5.73	5.72	5.73	5.72	5.73	5.73	5.63	5.83
Aroclor-1016-4	(4)	5.83	5.82	5.83	5.82	5.82	5.82	5.72	5.92
Aroclor-1016-5	(5)	6.12	6.11	6.12	6.11	6.12	6.12	6.02	6.22
Aroclor-1260-1	(1)	7.24	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-2	(2)	7.49	7.48	7.49	7.48	7.49	7.49	7.39	7.59
Aroclor-1260-3	(3)	7.85	7.84	7.85	7.84	7.84	7.85	7.75	7.95
Aroclor-1260-4	(4)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1260-5	(5)	8.39	8.38	8.39	8.38	8.39	8.39	8.29	8.49
Decachlorobiphenyl		10.19	10.18	10.19	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.50	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1242-1	(1)	5.64	5.64	5.65	5.64	5.64	5.64	5.54	5.74
Aroclor-1242-2	(2)	5.67	5.66	5.67	5.66	5.67	5.66	5.56	5.76
Aroclor-1242-3	(3)	5.73	5.72	5.73	5.72	5.73	5.73	5.63	5.83
Aroclor-1242-4	(4)	5.82	5.82	5.83	5.82	5.83	5.82	5.72	5.92
Aroclor-1242-5	(5)	6.55	6.55	6.56	6.55	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.19	10.18	10.19	10.18	10.19	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1248-1	(1)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1248-2	(2)	5.91	5.91	5.91	5.92	5.91	5.91	5.81	6.01
Aroclor-1248-3	(3)	6.12	6.12	6.11	6.12	6.12	6.12	6.02	6.22
Aroclor-1248-4	(4)	6.51	6.51	6.51	6.52	6.51	6.51	6.41	6.61
Aroclor-1248-5	(5)	6.55	6.55	6.55	6.56	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.18	10.18	10.18	10.19	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1254-1	(1)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1254-2	(2)	6.70	6.71	6.71	6.70	6.70	6.71	6.61	6.81
Aroclor-1254-3	(3)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1254-4	(4)	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
Aroclor-1254-5	(5)	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
Decachlorobiphenyl		10.18	10.18	10.18	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1268-1	(1)	8.70	8.69	8.70	8.69	8.69	8.69	8.59	8.79
Aroclor-1268-2	(2)	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Aroclor-1268-3	(3)	9.02	9.01	9.02	9.02	9.01	9.02	8.92	9.12
Aroclor-1268-4	(4)	9.44	9.43	9.44	9.43	9.43	9.43	9.33	9.53
Aroclor-1268-5	(5)	9.85	9.84	9.85	9.84	9.84	9.84	9.74	9.94

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.18	10.18	10.18	10.18	10.18	10.18	10.08	10.28
Tetrachloro-m-xylene	4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_P **Calibration Date(s):** 07/01/2025 07/01/2025

Calibration Times: 14:04 21:30

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

LAB FILE ID: RT 1000 = PP073413.D RT 750 = PP073414.D

RT 500 = PP073415.D RT 250 = PP073416.D RT 050 = PP073417.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.87	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1016-2	(2)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1016-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1016-4	(4)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1016-5	(5)	5.32	5.32	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1260-1	(1)	6.35	6.35	6.34	6.34	6.34	6.35	6.25	6.45
Aroclor-1260-2	(2)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1260-3	(3)	6.69	6.69	6.69	6.68	6.68	6.69	6.59	6.79
Aroclor-1260-4	(4)	7.16	7.16	7.15	7.15	7.15	7.15	7.05	7.25
Aroclor-1260-5	(5)	7.40	7.40	7.40	7.40	7.40	7.40	7.30	7.50
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.79	3.79	3.79	3.78	3.78	3.78	3.68	3.88
Aroclor-1242-1	(1)	4.87	4.87	4.87	4.86	4.87	4.87	4.77	4.97
Aroclor-1242-2	(2)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1242-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1242-4	(4)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1242-5	(5)	5.67	5.66	5.67	5.66	5.67	5.67	5.57	5.77
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.79	3.79	3.79	3.78	3.78	3.79	3.69	3.89
Aroclor-1248-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1248-2	(2)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1248-3	(3)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-4	(4)	5.31	5.31	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1248-5	(5)	5.70	5.71	5.70	5.70	5.71	5.70	5.60	5.80
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.78	3.79	3.79	3.78	3.78	3.78	3.68	3.88
Aroclor-1254-1	(1)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1254-2	(2)	5.81	5.81	5.81	5.81	5.81	5.81	5.71	5.91
Aroclor-1254-3	(3)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1254-4	(4)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Aroclor-1254-5	(5)	6.86	6.86	6.86	6.86	6.86	6.86	6.76	6.96
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1268-1	(1)	7.68	7.68	7.68	7.67	7.68	7.68	7.58	7.78
Aroclor-1268-2	(2)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1268-3	(3)	7.94	7.94	7.94	7.94	7.94	7.94	7.84	8.04
Aroclor-1268-4	(4)	8.24	8.24	8.24	8.24	8.24	8.24	8.14	8.34
Aroclor-1268-5	(5)	8.53	8.53	8.53	8.53	8.53	8.53	8.43	8.63

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 07/01/2025 07/01/2025
Calibration Times: 14:04 21:30

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

LAB FILE ID: CF 1000 = PP073413.D CF 750 = PP073414.D
CF 500 = PP073415.D CF 250 = PP073416.D CF 050 = PP073417.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	53386559	55099693	57782372	61225280	46407680	54780317	10
Aroclor-1016-2	(2)	81419554	84803241	87804568	91506020	68225200	82751717	11
Aroclor-1016-3	(3)	50608265	52725643	55448056	56692696	48292660	52753464	7
Aroclor-1016-4	(4)	42447376	44200837	45284776	46593636	41594580	44024241	5
Aroclor-1016-5	(5)	38953823	39611271	42379456	43518084	36573140	40207155	7
Aroclor-1260-1	(1)	68843805	71260640	74149802	78663704	63647180	71313026	8
Aroclor-1260-2	(2)	99938528	104203213	107495204	111625928	102293820	105111339	4
Aroclor-1260-3	(3)	89992879	93711335	96595022	99925392	80545180	92153962	8
Aroclor-1260-4	(4)	83642835	85762545	90344816	93589416	88452740	88358470	4
Aroclor-1260-5	(5)	193274824	198819536	203197892	204345800	186020600	197131730	4
Decachlorobiphenyl		1421650480	1468921840	1501094120	1508618080	1204671600	1420991224	9
Tetrachloro-m-xylene		1570855440	1622793880	1655550080	1703062440	1429208000	1596293968	7
Aroclor-1242-1	(1)	47425724	48267568	50545606	53677172	54137380	50810690	6
Aroclor-1242-2	(2)	70605687	73942651	77425488	81332260	75817440	75824705	5
Aroclor-1242-3	(3)	43609661	45342768	48170240	50661632	52400880	48037036	8
Aroclor-1242-4	(4)	36635769	38015049	40483084	41469592	35926280	38505955	6
Aroclor-1242-5	(5)	40193741	40353568	44121034	48899828	38950680	42503770	10
Decachlorobiphenyl		1442761550	1502718333	1602192620	1540462680	1255271200	1468681277	9
Tetrachloro-m-xylene		1577761690	1632079280	1703090600	1745443160	1445015600	1620678066	7
Aroclor-1248-1	(1)	36440017	38150569	37262436	41452096	42286380	39118300	7
Aroclor-1248-2	(2)	48329662	50547713	48827254	51778388	58562440	51609091	8
Aroclor-1248-3	(3)	56570945	58408187	55042098	60722368	52592180	56667156	5
Aroclor-1248-4	(4)	68098333	70673667	69108470	75950940	68089760	70384234	5
Aroclor-1248-5	(5)	66645751	68842209	72410538	75877756	66165900	69988431	6
Decachlorobiphenyl		1508523030	1525420920	1478881260	1540009680	1268070800	1464181138	8
Tetrachloro-m-xylene		1604315820	1641926027	1551741820	1680674040	1394949600	1574721461	7
Aroclor-1254-1	(1)	63999015	67834332	69607928	76054128	77161340	70931349	8
Aroclor-1254-2	(2)	96232579	100969377	102890118	110292084	105313160	103139464	5
Aroclor-1254-3	(3)	103352127	108143771	111397258	116883672	128608440	113677054	9
Aroclor-1254-4	(4)	94005550	97663439	99341056	103690768	102730340	99486231	4
Aroclor-1254-5	(5)	92682459	96038677	97662174	101007260	86476540	94773422	6
Decachlorobiphenyl		1481522320	1524577613	1557007420	1588915360	1260352600	1482475063	9
Tetrachloro-m-xylene		1577655960	1644831773	1681333000	1765332680	1403156000	1614461883	8
Aroclor-1268-1	(1)	286615327	289052520	307483458	294851244	261364480	287873406	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	247916720	251358060	266224964	254365208	227947580	249562506	6
Aroclor-1268-3	(3)	214702422	217599913	228686398	224788636	214260700	220007614	3
Aroclor-1268-4	(4)	94022064	94827915	98593676	96762032	95146280	95870393	2
Aroclor-1268-5	(5)	630910741	636564881	660765348	643855636	546333060	623685933	7
Decachlorobiphenyl		2657569150	2696505867	2841581440	2789411560	2581412800	2713296163	4
Tetrachloro-m-xylene		1617584630	1640463653	1736400760	1565046840	1414382600	1594775697	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 07/01/2025 07/01/2025
Calibration Times: 14:04 21:30

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

LAB FILE ID: CF 1000 = PP073413.D CF 750 = PP073414.D
CF 500 = PP073415.D CF 250 = PP073416.D CF 050 = PP073417.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	60174256	61652469	65707278	68697472	65429740	64332243	5
Aroclor-1016-2	(2)	89553215	90849693	97911362	103104680	95117320	95307254	6
Aroclor-1016-3	(3)	47760737	49133169	52363984	54033520	48807740	50419830	5
Aroclor-1016-4	(4)	37669371	39135572	42081524	43824204	40567820	40655698	6
Aroclor-1016-5	(5)	47972255	50349676	52978140	55111404	49824240	51247143	5
Aroclor-1260-1	(1)	85568106	92077153	95044522	97896916	90806160	92278571	5
Aroclor-1260-2	(2)	108395053	116492717	118624236	124712828	149744620	123593891	13
Aroclor-1260-3	(3)	95898053	104470747	101583108	105339980	93078140	100074006	5
Aroclor-1260-4	(4)	80000894	88722875	88003890	92045480	85312820	86817192	5
Aroclor-1260-5	(5)	209936846	226978429	216526966	226226544	211143860	218162529	4
Decachlorobiphenyl		1302456510	1414774613	1409048440	1485562240	1306412800	1383650921	6
Tetrachloro-m-xylene		1683025650	1786408827	1870928320	1901739040	1625568400	1773534047	7
Aroclor-1242-1	(1)	53280276	54693765	57617080	61835324	64576540	58400597	8
Aroclor-1242-2	(2)	82972139	81931147	87183548	91968308	87325500	86276128	5
Aroclor-1242-3	(3)	43743631	44030816	46799620	49550292	45297760	45884424	5
Aroclor-1242-4	(4)	41461297	42081584	45095442	47293720	43617680	43909945	5
Aroclor-1242-5	(5)	51909044	52967295	56730582	58513352	53462900	54716635	5
Decachlorobiphenyl		1424340080	1450974107	1528503620	1587816400	1352590800	1468845001	6
Tetrachloro-m-xylene		1883010450	1853943080	1918709500	1895172800	1684617400	1847090646	5
Aroclor-1248-1	(1)	42033623	43840621	39115776	46220760	48755960	43993348	8
Aroclor-1248-2	(2)	56827314	59455616	53089712	62482184	62673780	58905721	7
Aroclor-1248-3	(3)	59385868	61829628	53385880	64667732	62511060	60356034	7
Aroclor-1248-4	(4)	69578975	73002957	62777516	76679148	74543860	71316491	8
Aroclor-1248-5	(5)	72773558	74108969	70322374	77425468	73121080	73550290	4
Decachlorobiphenyl		1468137220	1389834400	1323620360	1545387480	1355376400	1416471172	6
Tetrachloro-m-xylene		1847505480	1847210627	1653069040	1807521240	1622513400	1755563957	6
Aroclor-1254-1	(1)	102934304	106592511	109028100	120731728	108455860	109548501	6
Aroclor-1254-2	(2)	89245302	92663879	94367858	105277948	103354040	96981805	7
Aroclor-1254-3	(3)	143533516	146102655	147782620	161681172	137594340	147338861	6
Aroclor-1254-4	(4)	87925313	92026563	91978244	100743696	78450540	90224871	9
Aroclor-1254-5	(5)	128472976	133438536	132590836	139444940	131430380	133075534	3
Decachlorobiphenyl		1365268720	1441926987	1465541720	1569805360	1402613400	1449031237	5
Tetrachloro-m-xylene		1755103800	1814214613	1848619580	1928531480	1514798800	1772253655	9
Aroclor-1268-1	(1)	282614813	303950412	304406056	299862664	286285140	295423817	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	251131090	270626467	272094030	267509272	248303600	261932892	4
Aroclor-1268-3	(3)	211302857	228722700	230182198	217737408	208169300	219222893	5
Aroclor-1268-4	(4)	93313531	99153364	100645408	92833816	87176160	94624456	6
Aroclor-1268-5	(5)	614873444	644117777	646287038	609236944	584176480	619738337	4
Decachlorobiphenyl		2503938560	2622033627	2700857080	2653903400	2481135200	2592373573	4
Tetrachloro-m-xylene		1836459180	1835199600	1882835460	1567494680	1720988000	1768595384	7

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_P **Date(s) Analyzed:** 07/01/2025 07/01/2025

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	4.69	4.59	4.79	18873700
		2	4.78	4.68	4.88	16115600
		3	4.85	4.75	4.95	51736800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.85	4.75	4.95	39969400
		2	5.38	5.28	5.48	20562800
		3	5.66	5.56	5.76	42330400
		4	5.82	5.72	5.92	21555200
		5	5.91	5.81	6.01	14064800
Aroclor-1262	500	1	8.07	7.97	8.17	115225000
		2	8.38	8.28	8.48	249090000
		3	8.70	8.60	8.80	163294000
		4	8.78	8.68	8.88	122009000
		5	9.43	9.33	9.53	86953800

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Instrument ID: ECD_P **Date(s) Analyzed:** 07/01/2025 07/01/2025

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	3.99	3.89	4.09	26914600
		2	4.08	3.98	4.18	20560400
		3	4.15	4.05	4.25	60670600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.15	4.05	4.25	47064800
		2	4.88	4.78	4.98	47003600
		3	5.06	4.96	5.16	24764800
		4	5.14	5.04	5.24	21423000
		5	5.31	5.21	5.41	23371200
Aroclor-1262	500	1	6.90	6.80	7.00	150053000
		2	7.15	7.05	7.25	124834000
		3	7.68	7.58	7.78	111157000
		4	7.74	7.64	7.84	182283000
		5	8.24	8.14	8.34	87201800

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 14:42 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.84	4.84	4.74	4.94	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.22	5.22	5.12	5.32	0.00
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.45	6.35	6.55	0.01
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.32	7.22	7.42	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 14:42 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.75	4.65	4.85	0.00
Aroclor-1016-2	(2)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-3	(3)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.20	5.20	5.10	5.30	0.00
Aroclor-1260-1	(1)	6.23	6.23	6.13	6.33	0.00
Aroclor-1260-2	(2)	6.42	6.42	6.32	6.52	0.01
Aroclor-1260-3	(3)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-4	(4)	7.04	7.04	6.94	7.14	0.00
Aroclor-1260-5	(5)	7.28	7.28	7.18	7.38	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.66	8.66	8.56	8.76	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/01/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111928.D **Time Analyzed:** 14:42

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.762	4.666	4.866	476.070	500.000	-4.8
Aroclor-1016-2	4.781	4.684	4.884	494.350	500.000	-1.1
Aroclor-1016-3	4.838	4.741	4.941	479.610	500.000	-4.1
Aroclor-1016-4	4.958	4.861	5.061	482.220	500.000	-3.6
Aroclor-1016-5	5.215	5.118	5.318	496.660	500.000	-0.7
Aroclor-1260-1	6.254	6.157	6.357	469.840	500.000	-6.0
Aroclor-1260-2	6.444	6.346	6.546	522.650	500.000	4.5
Aroclor-1260-3	6.810	6.713	6.913	549.430	500.000	9.9
Aroclor-1260-4	7.070	6.972	7.172	550.580	500.000	10.1
Aroclor-1260-5	7.313	7.216	7.416	503.270	500.000	0.7
Decachlorobiphenyl	8.709	8.612	8.812	41.680	50.000	-16.6
Tetrachloro-m-xylene	3.675	3.577	3.777	52.290	50.000	4.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/01/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111928.D **Time Analyzed:** 14:42

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.749	4.651	4.851	504.840	500.000	1.0
Aroclor-1016-2	4.767	4.669	4.869	516.010	500.000	3.2
Aroclor-1016-3	4.942	4.844	5.044	508.300	500.000	1.7
Aroclor-1016-4	4.985	4.887	5.087	505.240	500.000	1.0
Aroclor-1016-5	5.197	5.099	5.299	503.640	500.000	0.7
Aroclor-1260-1	6.227	6.129	6.329	487.640	500.000	-2.5
Aroclor-1260-2	6.415	6.316	6.516	501.580	500.000	0.3
Aroclor-1260-3	6.567	6.469	6.669	473.250	500.000	-5.4
Aroclor-1260-4	7.037	6.939	7.139	460.290	500.000	-7.9
Aroclor-1260-5	7.278	7.181	7.381	459.400	500.000	-8.1
Decachlorobiphenyl	8.658	8.561	8.761	45.950	50.000	-8.1
Tetrachloro-m-xylene	3.672	3.573	3.773	50.710	50.000	1.4

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 20:10 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.84	4.84	4.74	4.94	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.22	5.22	5.12	5.32	0.00
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.45	6.35	6.55	0.01
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.32	7.22	7.42	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/01/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 20:10 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.75	4.65	4.85	0.00
Aroclor-1016-2	(2)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-3	(3)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-4	(4)	4.98	4.99	4.89	5.09	0.01
Aroclor-1016-5	(5)	5.20	5.20	5.10	5.30	0.00
Aroclor-1260-1	(1)	6.23	6.23	6.13	6.33	0.00
Aroclor-1260-2	(2)	6.41	6.42	6.32	6.52	0.01
Aroclor-1260-3	(3)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-4	(4)	7.04	7.04	6.94	7.14	0.00
Aroclor-1260-5	(5)	7.28	7.28	7.18	7.38	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.66	8.66	8.56	8.76	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/01/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111944.D **Time Analyzed:** 20:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.762	4.666	4.866	481.590	500.000	-3.7
Aroclor-1016-2	4.781	4.684	4.884	485.830	500.000	-2.8
Aroclor-1016-3	4.838	4.741	4.941	491.600	500.000	-1.7
Aroclor-1016-4	4.957	4.861	5.061	474.670	500.000	-5.1
Aroclor-1016-5	5.215	5.118	5.318	476.220	500.000	-4.8
Aroclor-1260-1	6.253	6.157	6.357	431.680	500.000	-13.7
Aroclor-1260-2	6.443	6.346	6.546	470.870	500.000	-5.8
Aroclor-1260-3	6.809	6.713	6.913	508.620	500.000	1.7
Aroclor-1260-4	7.068	6.972	7.172	514.070	500.000	2.8
Aroclor-1260-5	7.312	7.216	7.416	448.590	500.000	-10.3
Decachlorobiphenyl	8.707	8.612	8.812	43.790	50.000	-12.4
Tetrachloro-m-xylene	3.675	3.577	3.777	51.830	50.000	3.7

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/01/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111944.D **Time Analyzed:** 20:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.748	4.651	4.851	522.410	500.000	4.5
Aroclor-1016-2	4.767	4.669	4.869	521.020	500.000	4.2
Aroclor-1016-3	4.941	4.844	5.044	512.090	500.000	2.4
Aroclor-1016-4	4.984	4.887	5.087	505.020	500.000	1.0
Aroclor-1016-5	5.197	5.099	5.299	493.120	500.000	-1.4
Aroclor-1260-1	6.226	6.129	6.329	466.400	500.000	-6.7
Aroclor-1260-2	6.414	6.316	6.516	481.910	500.000	-3.6
Aroclor-1260-3	6.566	6.469	6.669	456.130	500.000	-8.8
Aroclor-1260-4	7.036	6.939	7.139	443.290	500.000	-11.3
Aroclor-1260-5	7.278	7.181	7.381	442.190	500.000	-11.6
Decachlorobiphenyl	8.656	8.561	8.761	50.680	50.000	1.4
Tetrachloro-m-xylene	3.672	3.573	3.773	51.750	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 02:18 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.84	4.84	4.74	4.94	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.21	5.22	5.12	5.32	0.01
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.45	6.35	6.55	0.01
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.32	7.22	7.42	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 02:18 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.75	4.65	4.85	0.00
Aroclor-1016-2	(2)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-3	(3)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-4	(4)	4.98	4.99	4.89	5.09	0.01
Aroclor-1016-5	(5)	5.20	5.20	5.10	5.30	0.00
Aroclor-1260-1	(1)	6.23	6.23	6.13	6.33	0.01
Aroclor-1260-2	(2)	6.41	6.42	6.32	6.52	0.01
Aroclor-1260-3	(3)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-4	(4)	7.04	7.04	6.94	7.14	0.00
Aroclor-1260-5	(5)	7.28	7.28	7.18	7.38	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.66	8.66	8.56	8.76	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111960.D **Time Analyzed:** 02:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.762	4.666	4.866	450.250	500.000	-10.0
Aroclor-1016-2	4.781	4.684	4.884	464.190	500.000	-7.2
Aroclor-1016-3	4.838	4.741	4.941	444.110	500.000	-11.2
Aroclor-1016-4	4.957	4.861	5.061	448.910	500.000	-10.2
Aroclor-1016-5	5.214	5.118	5.318	450.750	500.000	-9.9
Aroclor-1260-1	6.252	6.157	6.357	447.020	500.000	-10.6
Aroclor-1260-2	6.443	6.346	6.546	496.200	500.000	-0.8
Aroclor-1260-3	6.809	6.713	6.913	525.580	500.000	5.1
Aroclor-1260-4	7.068	6.972	7.172	537.260	500.000	7.5
Aroclor-1260-5	7.311	7.216	7.416	499.020	500.000	-0.2
Decachlorobiphenyl	8.707	8.612	8.812	46.690	50.000	-6.6
Tetrachloro-m-xylene	3.675	3.577	3.777	48.500	50.000	-3.0

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111960.D **Time Analyzed:** 02:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.748	4.651	4.851	491.900	500.000	-1.6
Aroclor-1016-2	4.767	4.669	4.869	492.070	500.000	-1.6
Aroclor-1016-3	4.942	4.844	5.044	482.310	500.000	-3.5
Aroclor-1016-4	4.984	4.887	5.087	482.180	500.000	-3.6
Aroclor-1016-5	5.196	5.099	5.299	473.350	500.000	-5.3
Aroclor-1260-1	6.225	6.129	6.329	479.740	500.000	-4.1
Aroclor-1260-2	6.413	6.316	6.516	499.200	500.000	-0.2
Aroclor-1260-3	6.565	6.469	6.669	470.920	500.000	-5.8
Aroclor-1260-4	7.036	6.939	7.139	453.320	500.000	-9.3
Aroclor-1260-5	7.277	7.181	7.381	465.200	500.000	-7.0
Decachlorobiphenyl	8.656	8.561	8.761	51.950	50.000	3.9
Tetrachloro-m-xylene	3.672	3.573	3.773	47.570	50.000	-4.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 10:56 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.84	4.84	4.74	4.94	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.22	5.22	5.12	5.32	0.00
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.45	6.35	6.55	0.01
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.32	7.22	7.42	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 10:56 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.75	4.65	4.85	0.00
Aroclor-1016-2	(2)	4.77	4.77	4.67	4.87	0.01
Aroclor-1016-3	(3)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-4	(4)	4.98	4.99	4.89	5.09	0.01
Aroclor-1016-5	(5)	5.19	5.20	5.10	5.30	0.01
Aroclor-1260-1	(1)	6.23	6.23	6.13	6.33	0.01
Aroclor-1260-2	(2)	6.41	6.42	6.32	6.52	0.01
Aroclor-1260-3	(3)	6.56	6.57	6.47	6.67	0.01
Aroclor-1260-4	(4)	7.03	7.04	6.94	7.14	0.01
Aroclor-1260-5	(5)	7.28	7.28	7.18	7.38	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.66	8.66	8.56	8.76	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111967.D **Time Analyzed:** 10:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.763	4.666	4.866	499.470	500.000	-0.1
Aroclor-1016-2	4.781	4.684	4.884	523.980	500.000	4.8
Aroclor-1016-3	4.838	4.741	4.941	502.290	500.000	0.5
Aroclor-1016-4	4.958	4.861	5.061	505.900	500.000	1.2
Aroclor-1016-5	5.215	5.118	5.318	532.110	500.000	6.4
Aroclor-1260-1	6.253	6.157	6.357	524.450	500.000	4.9
Aroclor-1260-2	6.443	6.346	6.546	567.730	500.000	13.5
Aroclor-1260-3	6.809	6.713	6.913	592.080	500.000	18.4
Aroclor-1260-4	7.070	6.972	7.172	583.190	500.000	16.6
Aroclor-1260-5	7.312	7.216	7.416	566.850	500.000	13.4
Decachlorobiphenyl	8.708	8.612	8.812	47.330	50.000	-5.3
Tetrachloro-m-xylene	3.675	3.577	3.777	53.730	50.000	7.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111967.D **Time Analyzed:** 10:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.746	4.651	4.851	524.840	500.000	5.0
Aroclor-1016-2	4.765	4.669	4.869	539.070	500.000	7.8
Aroclor-1016-3	4.940	4.844	5.044	527.680	500.000	5.5
Aroclor-1016-4	4.983	4.887	5.087	528.380	500.000	5.7
Aroclor-1016-5	5.194	5.099	5.299	521.700	500.000	4.3
Aroclor-1260-1	6.225	6.129	6.329	536.180	500.000	7.2
Aroclor-1260-2	6.413	6.316	6.516	547.830	500.000	9.6
Aroclor-1260-3	6.564	6.469	6.669	524.840	500.000	5.0
Aroclor-1260-4	7.034	6.939	7.139	510.430	500.000	2.1
Aroclor-1260-5	7.276	7.181	7.381	517.150	500.000	3.4
Decachlorobiphenyl	8.656	8.561	8.761	49.900	50.000	-0.2
Tetrachloro-m-xylene	3.671	3.573	3.773	52.020	50.000	4.0

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 16:19 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.84	4.84	4.74	4.94	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.22	5.22	5.12	5.32	0.00
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.45	6.35	6.55	0.01
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.32	7.22	7.42	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.00
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 16:19 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.75	4.65	4.85	0.00
Aroclor-1016-2	(2)	4.77	4.77	4.67	4.87	0.01
Aroclor-1016-3	(3)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-4	(4)	4.98	4.99	4.89	5.09	0.01
Aroclor-1016-5	(5)	5.20	5.20	5.10	5.30	0.00
Aroclor-1260-1	(1)	6.22	6.23	6.13	6.33	0.01
Aroclor-1260-2	(2)	6.41	6.42	6.32	6.52	0.01
Aroclor-1260-3	(3)	6.56	6.57	6.47	6.67	0.01
Aroclor-1260-4	(4)	7.04	7.04	6.94	7.14	0.01
Aroclor-1260-5	(5)	7.28	7.28	7.18	7.38	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.66	8.66	8.56	8.76	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111981.D **Time Analyzed:** 16:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.763	4.666	4.866	494.270	500.000	-1.1
Aroclor-1016-2	4.782	4.684	4.884	498.670	500.000	-0.3
Aroclor-1016-3	4.838	4.741	4.941	493.110	500.000	-1.4
Aroclor-1016-4	4.958	4.861	5.061	499.120	500.000	-0.2
Aroclor-1016-5	5.215	5.118	5.318	509.150	500.000	1.8
Aroclor-1260-1	6.253	6.157	6.357	497.320	500.000	-0.5
Aroclor-1260-2	6.442	6.346	6.546	530.770	500.000	6.2
Aroclor-1260-3	6.809	6.713	6.913	543.990	500.000	8.8
Aroclor-1260-4	7.069	6.972	7.172	529.570	500.000	5.9
Aroclor-1260-5	7.312	7.216	7.416	514.080	500.000	2.8
Decachlorobiphenyl	8.707	8.612	8.812	44.820	50.000	-10.4
Tetrachloro-m-xylene	3.676	3.577	3.777	53.460	50.000	6.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111981.D **Time Analyzed:** 16:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.746	4.651	4.851	531.680	500.000	6.3
Aroclor-1016-2	4.765	4.669	4.869	540.660	500.000	8.1
Aroclor-1016-3	4.940	4.844	5.044	533.100	500.000	6.6
Aroclor-1016-4	4.983	4.887	5.087	532.020	500.000	6.4
Aroclor-1016-5	5.195	5.099	5.299	523.140	500.000	4.6
Aroclor-1260-1	6.224	6.129	6.329	531.030	500.000	6.2
Aroclor-1260-2	6.412	6.316	6.516	552.990	500.000	10.6
Aroclor-1260-3	6.564	6.469	6.669	523.940	500.000	4.8
Aroclor-1260-4	7.035	6.939	7.139	515.020	500.000	3.0
Aroclor-1260-5	7.276	7.181	7.381	524.740	500.000	4.9
Decachlorobiphenyl	8.656	8.561	8.761	51.330	50.000	2.7
Tetrachloro-m-xylene	3.671	3.573	3.773	52.280	50.000	4.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 21:16 **Initial Calibration Time(s):** 10:40 19:07

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)	4.76	4.77	4.67	4.87	0.01
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.84	4.84	4.74	4.94	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.21	5.22	5.12	5.32	0.01
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.45	6.35	6.55	0.01
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.00
Aroclor-1260-4	(4)	7.07	7.07	6.97	7.17	0.00
Aroclor-1260-5	(5)	7.31	7.32	7.22	7.42	0.01
Tetrachloro-m-xylene		3.67	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.71	8.71	8.61	8.81	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

Continuing Calib Time: 21:16 **Initial Calibration Time(s):** 10:40 19:07

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.75	4.65	4.85	0.00
Aroclor-1016-2	(2)	4.77	4.77	4.67	4.87	0.01
Aroclor-1016-3	(3)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-4	(4)	4.98	4.99	4.89	5.09	0.01
Aroclor-1016-5	(5)	5.20	5.20	5.10	5.30	0.00
Aroclor-1260-1	(1)	6.22	6.23	6.13	6.33	0.01
Aroclor-1260-2	(2)	6.41	6.42	6.32	6.52	0.01
Aroclor-1260-3	(3)	6.57	6.57	6.47	6.67	0.00
Aroclor-1260-4	(4)	7.04	7.04	6.94	7.14	0.01
Aroclor-1260-5	(5)	7.28	7.28	7.18	7.38	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.66	8.66	8.56	8.76	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111995.D **Time Analyzed:** 21:16

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.760	4.666	4.866	471.790	500.000	-5.6
Aroclor-1016-2	4.779	4.684	4.884	484.590	500.000	-3.1
Aroclor-1016-3	4.836	4.741	4.941	471.150	500.000	-5.8
Aroclor-1016-4	4.956	4.861	5.061	476.110	500.000	-4.8
Aroclor-1016-5	5.213	5.118	5.318	489.260	500.000	-2.1
Aroclor-1260-1	6.251	6.157	6.357	464.360	500.000	-7.1
Aroclor-1260-2	6.441	6.346	6.546	498.640	500.000	-0.3
Aroclor-1260-3	6.807	6.713	6.913	496.090	500.000	-0.8
Aroclor-1260-4	7.066	6.972	7.172	479.720	500.000	-4.1
Aroclor-1260-5	7.309	7.216	7.416	482.380	500.000	-3.5
Decachlorobiphenyl	8.705	8.612	8.812	41.570	50.000	-16.9
Tetrachloro-m-xylene	3.673	3.577	3.777	52.800	50.000	5.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111995.D **Time Analyzed:** 21:16

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.747	4.651	4.851	515.550	500.000	3.1
Aroclor-1016-2	4.765	4.669	4.869	531.230	500.000	6.2
Aroclor-1016-3	4.940	4.844	5.044	519.890	500.000	4.0
Aroclor-1016-4	4.982	4.887	5.087	517.080	500.000	3.4
Aroclor-1016-5	5.195	5.099	5.299	512.770	500.000	2.6
Aroclor-1260-1	6.224	6.129	6.329	513.060	500.000	2.6
Aroclor-1260-2	6.413	6.316	6.516	534.530	500.000	6.9
Aroclor-1260-3	6.565	6.469	6.669	504.350	500.000	0.9
Aroclor-1260-4	7.035	6.939	7.139	485.350	500.000	-2.9
Aroclor-1260-5	7.277	7.181	7.381	502.790	500.000	0.6
Decachlorobiphenyl	8.656	8.561	8.761	48.520	50.000	-3.0
Tetrachloro-m-xylene	3.670	3.573	3.773	52.260	50.000	4.5

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 18:47 **Initial Calibration Time(s):** 14:04 21:30

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.72	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.49	7.39	7.59	0.01
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.07	8.07	7.97	8.17	0.00
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.19	10.09	10.29	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 18:47 **Initial Calibration Time(s):** 14:04 21:30

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.00
Aroclor-1260-1	(1)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.53	6.53	6.43	6.63	0.00
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.00
Aroclor-1260-5	(5)	7.39	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.79	8.69	8.89	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL07 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073463.D **Time Analyzed:** 18:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.640	5.544	5.744	511.530	500.000	2.3
Aroclor-1016-2	5.662	5.566	5.766	527.050	500.000	5.4
Aroclor-1016-3	5.724	5.629	5.829	489.140	500.000	-2.2
Aroclor-1016-4	5.822	5.726	5.926	517.580	500.000	3.5
Aroclor-1016-5	6.114	6.018	6.218	501.770	500.000	0.4
Aroclor-1260-1	7.231	7.134	7.334	498.660	500.000	-0.3
Aroclor-1260-2	7.484	7.389	7.589	488.000	500.000	-2.4
Aroclor-1260-3	7.843	7.746	7.946	468.290	500.000	-6.3
Aroclor-1260-4	8.066	7.971	8.171	450.520	500.000	-9.9
Aroclor-1260-5	8.384	8.289	8.489	473.490	500.000	-5.3
Decachlorobiphenyl	10.181	10.086	10.286	48.200	50.000	-3.6
Tetrachloro-m-xylene	4.490	4.393	4.593	51.140	50.000	2.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL07 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073463.D **Time Analyzed:** 18:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.862	4.764	4.964	559.790	500.000	12.0
Aroclor-1016-2	4.880	4.782	4.982	561.770	500.000	12.4
Aroclor-1016-3	5.056	4.958	5.158	573.400	500.000	14.7
Aroclor-1016-4	5.098	5.000	5.200	575.300	500.000	15.1
Aroclor-1016-5	5.311	5.214	5.414	583.620	500.000	16.7
Aroclor-1260-1	6.342	6.244	6.444	528.760	500.000	5.8
Aroclor-1260-2	6.531	6.433	6.633	492.230	500.000	-1.6
Aroclor-1260-3	6.682	6.585	6.785	538.520	500.000	7.7
Aroclor-1260-4	7.152	7.054	7.254	518.690	500.000	3.7
Aroclor-1260-5	7.394	7.297	7.497	512.140	500.000	2.4
Decachlorobiphenyl	8.788	8.690	8.890	54.400	50.000	8.8
Tetrachloro-m-xylene	3.782	3.685	3.885	54.540	50.000	9.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 23:58 **Initial Calibration Time(s):** 14:04 21:30

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.72	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.49	7.39	7.59	0.01
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.07	8.07	7.97	8.17	0.01
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.19	10.09	10.29	0.01

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 07/01/2025 07/01/2025

Continuing Calib Time: 23:58 **Initial Calibration Time(s):** 14:04 21:30

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-2	(2)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.31	5.21	5.41	0.00
Aroclor-1260-1	(1)	6.34	6.34	6.24	6.44	0.00
Aroclor-1260-2	(2)	6.53	6.53	6.43	6.63	0.00
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.00
Aroclor-1260-5	(5)	7.39	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.79	8.69	8.89	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL08 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073478.D **Time Analyzed:** 23:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.640	5.544	5.744	476.200	500.000	-4.8
Aroclor-1016-2	5.661	5.566	5.766	500.870	500.000	0.2
Aroclor-1016-3	5.723	5.629	5.829	476.170	500.000	-4.8
Aroclor-1016-4	5.821	5.726	5.926	488.130	500.000	-2.4
Aroclor-1016-5	6.113	6.018	6.218	484.430	500.000	-3.1
Aroclor-1260-1	7.230	7.134	7.334	484.390	500.000	-3.1
Aroclor-1260-2	7.484	7.389	7.589	474.470	500.000	-5.1
Aroclor-1260-3	7.842	7.746	7.946	451.690	500.000	-9.7
Aroclor-1260-4	8.065	7.971	8.171	432.530	500.000	-13.5
Aroclor-1260-5	8.384	8.289	8.489	440.260	500.000	-11.9
Decachlorobiphenyl	10.178	10.086	10.286	45.850	50.000	-8.3
Tetrachloro-m-xylene	4.489	4.393	4.593	48.710	50.000	-2.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/01/2025 07/01/2025

Client Sample No.: CCAL08 **Date Analyzed:** 07/02/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073478.D **Time Analyzed:** 23:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.861	4.764	4.964	553.770	500.000	10.8
Aroclor-1016-2	4.879	4.782	4.982	561.550	500.000	12.3
Aroclor-1016-3	5.056	4.958	5.158	576.960	500.000	15.4
Aroclor-1016-4	5.097	5.000	5.200	578.510	500.000	15.7
Aroclor-1016-5	5.311	5.214	5.414	591.760	500.000	18.4
Aroclor-1260-1	6.342	6.244	6.444	550.610	500.000	10.1
Aroclor-1260-2	6.529	6.433	6.633	510.620	500.000	2.1
Aroclor-1260-3	6.682	6.585	6.785	544.940	500.000	9.0
Aroclor-1260-4	7.151	7.054	7.254	545.010	500.000	9.0
Aroclor-1260-5	7.394	7.297	7.497	520.370	500.000	4.1
Decachlorobiphenyl	8.786	8.690	8.890	54.310	50.000	8.6
Tetrachloro-m-xylene	3.783	3.685	3.885	53.770	50.000	7.5

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/11/2025 06/11/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/11/2025	10:21	PO111586.D	8.71	3.68
AR1660ICC1000	AR1660ICC1000	06/11/2025	10:40	PO111587.D	8.71	3.68
AR1660ICC750	AR1660ICC750	06/11/2025	10:58	PO111588.D	8.71	3.68
AR1660ICC500	AR1660ICC500	06/11/2025	11:17	PO111589.D	8.71	3.68
AR1660ICC250	AR1660ICC250	06/11/2025	11:35	PO111590.D	8.71	3.68
AR1660ICC050	AR1660ICC050	06/11/2025	11:53	PO111591.D	8.71	3.68
AR1221ICC500	AR1221ICC500	06/11/2025	12:12	PO111592.D	8.71	3.68
AR1232ICC500	AR1232ICC500	06/11/2025	12:30	PO111593.D	8.71	3.68
AR1242ICC1000	AR1242ICC1000	06/11/2025	12:48	PO111594.D	8.71	3.68
AR1242ICC750	AR1242ICC750	06/11/2025	13:07	PO111595.D	8.71	3.68
AR1242ICC500	AR1242ICC500	06/11/2025	13:25	PO111596.D	8.71	3.68
AR1242ICC250	AR1242ICC250	06/11/2025	13:44	PO111597.D	8.71	3.68
AR1242ICC050	AR1242ICC050	06/11/2025	14:02	PO111598.D	8.71	3.68
AR1248ICC1000	AR1248ICC1000	06/11/2025	14:20	PO111599.D	8.71	3.68
AR1248ICC750	AR1248ICC750	06/11/2025	14:39	PO111600.D	8.71	3.68
AR1248ICC500	AR1248ICC500	06/11/2025	15:14	PO111601.D	8.71	3.68
AR1248ICC250	AR1248ICC250	06/11/2025	15:32	PO111602.D	8.71	3.68
AR1248ICC050	AR1248ICC050	06/11/2025	15:49	PO111603.D	8.71	3.68
AR1254ICC1000	AR1254ICC1000	06/11/2025	16:06	PO111604.D	8.71	3.68
AR1254ICC750	AR1254ICC750	06/11/2025	16:25	PO111605.D	8.71	3.68
AR1254ICC500	AR1254ICC500	06/11/2025	16:43	PO111606.D	8.71	3.68
AR1254ICC250	AR1254ICC250	06/11/2025	17:00	PO111607.D	8.71	3.68
AR1254ICC050	AR1254ICC050	06/11/2025	17:18	PO111608.D	8.71	3.68
AR1262ICC500	AR1262ICC500	06/11/2025	17:36	PO111609.D	8.71	3.68
AR1268ICC1000	AR1268ICC1000	06/11/2025	17:55	PO111610.D	8.71	3.68
AR1268ICC750	AR1268ICC750	06/11/2025	18:13	PO111611.D	8.71	3.68
AR1268ICC500	AR1268ICC500	06/11/2025	18:31	PO111612.D	8.71	3.68
AR1268ICC250	AR1268ICC250	06/11/2025	18:50	PO111613.D	8.71	3.68
AR1268ICC050	AR1268ICC050	06/11/2025	19:07	PO111614.D	8.71	3.68
AR1660CCC500	AR1660CCC500	07/01/2025	14:42	PO111928.D	8.71	3.68
I.BLK	I.BLK	07/01/2025	16:10	PO111933.D	8.71	3.68
PB168671BL	PB168671BL	07/01/2025	16:27	PO111934.D	8.71	3.68
PB168671BS	PB168671BS	07/01/2025	16:45	PO111935.D	8.71	3.68
TP-76	Q2458-01	07/01/2025	17:02	PO111936.D	8.71	3.68
TP-55	Q2458-02	07/01/2025	17:19	PO111937.D	8.71	3.68
TP-55MS	Q2458-02MS	07/01/2025	17:37	PO111938.D	8.71	3.68
TP-55MSD	Q2458-02MSD	07/01/2025	17:54	PO111939.D	8.71	3.68
TP-68	Q2458-03	07/01/2025	18:12	PO111940.D	8.71	3.68
TP-67	Q2458-04	07/01/2025	18:29	PO111941.D	8.71	3.67
TP-66	Q2458-05	07/01/2025	18:47	PO111942.D	8.71	3.67
TP-60	Q2458-06	07/01/2025	19:04	PO111943.D	8.71	3.67
AR1660CCC500	AR1660CCC500	07/01/2025	20:10	PO111944.D	8.71	3.68

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Analytical Sequence

I.BLK	I.BLK	07/01/2025	22:13	PO111949.D	8.71	3.68
TP-62	Q2458-07	07/01/2025	22:31	PO111950.D	8.71	3.68
TP-63	Q2458-08	07/01/2025	22:48	PO111951.D	8.71	3.68
AR1660CCC500	AR1660CCC500	07/02/2025	02:18	PO111960.D	8.71	3.68
I.BLK	I.BLK	07/02/2025	04:26	PO111965.D	8.71	3.68
AR1660CCC500	AR1660CCC500	07/02/2025	10:56	PO111967.D	8.71	3.68
I.BLK	I.BLK	07/02/2025	12:08	PO111971.D	8.71	3.67
TP-59	Q2458-09	07/02/2025	13:37	PO111976.D	8.71	3.67
AR1660CCC500	AR1660CCC500	07/02/2025	16:19	PO111981.D	8.71	3.68
I.BLK	I.BLK	07/02/2025	17:28	PO111985.D	8.71	3.67
PB168704BL	PB168704BL	07/02/2025	17:45	PO111986.D	8.71	3.67
PB168704BS	PB168704BS	07/02/2025	18:03	PO111987.D	8.71	3.68
PB168704BSD	PB168704BSD	07/02/2025	18:20	PO111988.D	8.70	3.67
AR1660CCC500	AR1660CCC500	07/02/2025	21:16	PO111995.D	8.71	3.67
I.BLK	I.BLK	07/02/2025	23:05	PO111999.D	8.71	3.68
I.BLK	I.BLK	07/01/2025	13:46	PP073412.D	10.18	4.49
AR1660ICC1000	AR1660ICC1000	07/01/2025	14:04	PP073413.D	10.19	4.50
AR1660ICC750	AR1660ICC750	07/01/2025	14:21	PP073414.D	10.18	4.49
AR1660ICC500	AR1660ICC500	07/01/2025	14:37	PP073415.D	10.19	4.49
AR1660ICC250	AR1660ICC250	07/01/2025	14:54	PP073416.D	10.18	4.49
AR1660ICC050	AR1660ICC050	07/01/2025	15:10	PP073417.D	10.18	4.49
AR1221ICC500	AR1221ICC500	07/01/2025	15:26	PP073418.D	10.18	4.49
AR1232ICC500	AR1232ICC500	07/01/2025	15:43	PP073419.D	10.18	4.49
AR1242ICC1000	AR1242ICC1000	07/01/2025	15:59	PP073420.D	10.19	4.49
AR1242ICC750	AR1242ICC750	07/01/2025	16:16	PP073421.D	10.18	4.49
AR1242ICC500	AR1242ICC500	07/01/2025	16:33	PP073422.D	10.19	4.49
AR1242ICC250	AR1242ICC250	07/01/2025	16:49	PP073423.D	10.18	4.49
AR1242ICC050	AR1242ICC050	07/01/2025	17:05	PP073424.D	10.19	4.49
AR1248ICC1000	AR1248ICC1000	07/01/2025	17:22	PP073425.D	10.18	4.49
AR1248ICC750	AR1248ICC750	07/01/2025	17:39	PP073426.D	10.18	4.49
AR1248ICC500	AR1248ICC500	07/01/2025	17:55	PP073427.D	10.18	4.49
AR1248ICC250	AR1248ICC250	07/01/2025	18:12	PP073428.D	10.19	4.49
AR1248ICC050	AR1248ICC050	07/01/2025	18:28	PP073429.D	10.18	4.49
AR1254ICC1000	AR1254ICC1000	07/01/2025	18:45	PP073430.D	10.18	4.49
AR1254ICC750	AR1254ICC750	07/01/2025	19:01	PP073431.D	10.18	4.49
AR1254ICC500	AR1254ICC500	07/01/2025	19:18	PP073432.D	10.18	4.49
AR1254ICC250	AR1254ICC250	07/01/2025	19:35	PP073433.D	10.18	4.49
AR1254ICC050	AR1254ICC050	07/01/2025	19:51	PP073434.D	10.18	4.49
AR1262ICC500	AR1262ICC500	07/01/2025	20:08	PP073435.D	10.18	4.49
AR1268ICC1000	AR1268ICC1000	07/01/2025	20:24	PP073436.D	10.18	4.49
AR1268ICC750	AR1268ICC750	07/01/2025	20:41	PP073437.D	10.18	4.49
AR1268ICC500	AR1268ICC500	07/01/2025	20:57	PP073438.D	10.18	4.49
AR1268ICC250	AR1268ICC250	07/01/2025	21:14	PP073439.D	10.18	4.49
AR1268ICC050	AR1268ICC050	07/01/2025	21:30	PP073440.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/02/2025	18:47	PP073463.D	10.18	4.49
I.BLK	I.BLK	07/02/2025	19:53	PP073467.D	10.18	4.49
FB-06272025	Q2458-10	07/02/2025	21:47	PP073474.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/02/2025	23:58	PP073478.D	10.18	4.49
I.BLK	I.BLK	07/03/2025	01:04	PP073482.D	10.18	4.49

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/11/2025 06/11/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/11/2025	10:21	PO111586.D	8.66	3.67
AR1660ICC1000	AR1660ICC1000	06/11/2025	10:40	PO111587.D	8.66	3.67
AR1660ICC750	AR1660ICC750	06/11/2025	10:58	PO111588.D	8.66	3.67
AR1660ICC500	AR1660ICC500	06/11/2025	11:17	PO111589.D	8.66	3.67
AR1660ICC250	AR1660ICC250	06/11/2025	11:35	PO111590.D	8.66	3.67
AR1660ICC050	AR1660ICC050	06/11/2025	11:53	PO111591.D	8.66	3.67
AR1221ICC500	AR1221ICC500	06/11/2025	12:12	PO111592.D	8.66	3.67
AR1232ICC500	AR1232ICC500	06/11/2025	12:30	PO111593.D	8.66	3.67
AR1242ICC1000	AR1242ICC1000	06/11/2025	12:48	PO111594.D	8.66	3.67
AR1242ICC750	AR1242ICC750	06/11/2025	13:07	PO111595.D	8.66	3.67
AR1242ICC500	AR1242ICC500	06/11/2025	13:25	PO111596.D	8.66	3.67
AR1242ICC250	AR1242ICC250	06/11/2025	13:44	PO111597.D	8.66	3.67
AR1242ICC050	AR1242ICC050	06/11/2025	14:02	PO111598.D	8.66	3.67
AR1248ICC1000	AR1248ICC1000	06/11/2025	14:20	PO111599.D	8.66	3.67
AR1248ICC750	AR1248ICC750	06/11/2025	14:39	PO111600.D	8.66	3.67
AR1248ICC500	AR1248ICC500	06/11/2025	15:14	PO111601.D	8.66	3.67
AR1248ICC250	AR1248ICC250	06/11/2025	15:32	PO111602.D	8.66	3.67
AR1248ICC050	AR1248ICC050	06/11/2025	15:49	PO111603.D	8.66	3.67
AR1254ICC1000	AR1254ICC1000	06/11/2025	16:06	PO111604.D	8.66	3.67
AR1254ICC750	AR1254ICC750	06/11/2025	16:25	PO111605.D	8.66	3.67
AR1254ICC500	AR1254ICC500	06/11/2025	16:43	PO111606.D	8.66	3.67
AR1254ICC250	AR1254ICC250	06/11/2025	17:00	PO111607.D	8.66	3.67
AR1254ICC050	AR1254ICC050	06/11/2025	17:18	PO111608.D	8.66	3.67
AR1262ICC500	AR1262ICC500	06/11/2025	17:36	PO111609.D	8.66	3.67
AR1268ICC1000	AR1268ICC1000	06/11/2025	17:55	PO111610.D	8.66	3.67
AR1268ICC750	AR1268ICC750	06/11/2025	18:13	PO111611.D	8.66	3.67
AR1268ICC500	AR1268ICC500	06/11/2025	18:31	PO111612.D	8.66	3.67
AR1268ICC250	AR1268ICC250	06/11/2025	18:50	PO111613.D	8.66	3.67
AR1268ICC050	AR1268ICC050	06/11/2025	19:07	PO111614.D	8.66	3.67
AR1660CCC500	AR1660CCC500	07/01/2025	14:42	PO111928.D	8.66	3.67
I.BLK	I.BLK	07/01/2025	16:10	PO111933.D	8.66	3.67
PB168671BL	PB168671BL	07/01/2025	16:27	PO111934.D	8.66	3.67
PB168671BS	PB168671BS	07/01/2025	16:45	PO111935.D	8.66	3.67
TP-76	Q2458-01	07/01/2025	17:02	PO111936.D	8.66	3.67
TP-55	Q2458-02	07/01/2025	17:19	PO111937.D	8.66	3.67
TP-55MS	Q2458-02MS	07/01/2025	17:37	PO111938.D	8.66	3.67
TP-55MSD	Q2458-02MSD	07/01/2025	17:54	PO111939.D	8.66	3.67
TP-68	Q2458-03	07/01/2025	18:12	PO111940.D	8.66	3.67
TP-67	Q2458-04	07/01/2025	18:29	PO111941.D	8.66	3.67
TP-66	Q2458-05	07/01/2025	18:47	PO111942.D	8.66	3.67
TP-60	Q2458-06	07/01/2025	19:04	PO111943.D	8.66	3.67
AR1660CCC500	AR1660CCC500	07/01/2025	20:10	PO111944.D	8.66	3.67

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Analytical Sequence

I.BLK	I.BLK	07/01/2025	22:13	PO111949.D	8.66	3.67
TP-62	Q2458-07	07/01/2025	22:31	PO111950.D	8.66	3.67
TP-63	Q2458-08	07/01/2025	22:48	PO111951.D	8.66	3.67
AR1660CCC500	AR1660CCC500	07/02/2025	02:18	PO111960.D	8.66	3.67
I.BLK	I.BLK	07/02/2025	04:26	PO111965.D	8.66	3.67
AR1660CCC500	AR1660CCC500	07/02/2025	10:56	PO111967.D	8.66	3.67
I.BLK	I.BLK	07/02/2025	12:08	PO111971.D	8.66	3.67
TP-59	Q2458-09	07/02/2025	13:37	PO111976.D	8.66	3.67
AR1660CCC500	AR1660CCC500	07/02/2025	16:19	PO111981.D	8.66	3.67
I.BLK	I.BLK	07/02/2025	17:28	PO111985.D	8.66	3.67
PB168704BL	PB168704BL	07/02/2025	17:45	PO111986.D	8.66	3.67
PB168704BS	PB168704BS	07/02/2025	18:03	PO111987.D	8.66	3.67
PB168704BSD	PB168704BSD	07/02/2025	18:20	PO111988.D	8.66	3.67
AR1660CCC500	AR1660CCC500	07/02/2025	21:16	PO111995.D	8.66	3.67
I.BLK	I.BLK	07/02/2025	23:05	PO111999.D	8.66	3.67
I.BLK	I.BLK	07/01/2025	13:46	PP073412.D	8.79	3.78
AR1660ICC1000	AR1660ICC1000	07/01/2025	14:04	PP073413.D	8.79	3.79
AR1660ICC750	AR1660ICC750	07/01/2025	14:21	PP073414.D	8.79	3.79
AR1660ICC500	AR1660ICC500	07/01/2025	14:37	PP073415.D	8.79	3.79
AR1660ICC250	AR1660ICC250	07/01/2025	14:54	PP073416.D	8.79	3.78
AR1660ICC050	AR1660ICC050	07/01/2025	15:10	PP073417.D	8.79	3.78
AR1221ICC500	AR1221ICC500	07/01/2025	15:26	PP073418.D	8.79	3.78
AR1232ICC500	AR1232ICC500	07/01/2025	15:43	PP073419.D	8.79	3.78
AR1242ICC1000	AR1242ICC1000	07/01/2025	15:59	PP073420.D	8.79	3.79
AR1242ICC750	AR1242ICC750	07/01/2025	16:16	PP073421.D	8.79	3.79
AR1242ICC500	AR1242ICC500	07/01/2025	16:33	PP073422.D	8.79	3.79
AR1242ICC250	AR1242ICC250	07/01/2025	16:49	PP073423.D	8.79	3.78
AR1242ICC050	AR1242ICC050	07/01/2025	17:05	PP073424.D	8.79	3.78
AR1248ICC1000	AR1248ICC1000	07/01/2025	17:22	PP073425.D	8.79	3.78
AR1248ICC750	AR1248ICC750	07/01/2025	17:39	PP073426.D	8.79	3.79
AR1248ICC500	AR1248ICC500	07/01/2025	17:55	PP073427.D	8.79	3.79
AR1248ICC250	AR1248ICC250	07/01/2025	18:12	PP073428.D	8.79	3.78
AR1248ICC050	AR1248ICC050	07/01/2025	18:28	PP073429.D	8.79	3.78
AR1254ICC1000	AR1254ICC1000	07/01/2025	18:45	PP073430.D	8.79	3.78
AR1254ICC750	AR1254ICC750	07/01/2025	19:01	PP073431.D	8.79	3.78
AR1254ICC500	AR1254ICC500	07/01/2025	19:18	PP073432.D	8.79	3.78
AR1254ICC250	AR1254ICC250	07/01/2025	19:35	PP073433.D	8.79	3.78
AR1254ICC050	AR1254ICC050	07/01/2025	19:51	PP073434.D	8.79	3.78
AR1262ICC500	AR1262ICC500	07/01/2025	20:08	PP073435.D	8.79	3.78
AR1268ICC1000	AR1268ICC1000	07/01/2025	20:24	PP073436.D	8.79	3.78
AR1268ICC750	AR1268ICC750	07/01/2025	20:41	PP073437.D	8.79	3.78
AR1268ICC500	AR1268ICC500	07/01/2025	20:57	PP073438.D	8.79	3.78
AR1268ICC250	AR1268ICC250	07/01/2025	21:14	PP073439.D	8.79	3.78
AR1268ICC050	AR1268ICC050	07/01/2025	21:30	PP073440.D	8.79	3.78
AR1660CCC500	AR1660CCC500	07/02/2025	18:47	PP073463.D	8.79	3.78
I.BLK	I.BLK	07/02/2025	19:53	PP073467.D	8.79	3.78
FB-06272025	Q2458-10	07/02/2025	21:47	PP073474.D	8.79	3.78
AR1660CCC500	AR1660CCC500	07/02/2025	23:58	PP073478.D	8.79	3.78
I.BLK	I.BLK	07/03/2025	01:04	PP073482.D	8.79	3.78

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168671BL	SDG No.:	Q2458
Lab Sample ID:	PB168671BL	Matrix:	SOIL
Analytical Method:	8082A	% 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
PO111934.D	1	07/01/25 08:30	07/01/25 16:27	PB168671

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	20.0		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.9		32 - 175	100%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168704BL	SDG No.:	Q2458
Lab Sample ID:	PB168704BL	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111986.D	1	07/02/25 12:10	07/02/25 17:45	PB168704

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	19.7		30 - 173	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		10 - 173	99%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/11/25
Project:	South River WM Replacement	Date Received:	06/11/25
Client Sample ID:	PIBLK-PO111586.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111586.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111586.D	1		06/11/25	po061125

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	19.0		60 - 140	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		60 - 140	103%	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
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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PO111933.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111933.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111933.D	1		07/01/25	po070125

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	17.6		60 - 140	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		60 - 140	86%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PO111949.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111949.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111949.D	1		07/01/25	po070125

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	17.6		60 - 140	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.9		60 - 140	79%	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
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PO111965.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111965.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111965.D	1		07/02/25	po070125

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	18.3		60 - 140	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PO111971.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111971.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111971.D	1		07/02/25	PO070225

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	18.8		60 - 140	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.2		60 - 140	91%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PO111985.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111985.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111985.D	1		07/02/25	po070225

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	19.2		60 - 140	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		60 - 140	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PO111999.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PO111999.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111999.D	1		07/02/25	po070225

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	19.0		60 - 140	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		60 - 140	85%	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:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-PP073412.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PP073412.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PP073412.D	1		07/01/25	PP070125

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	15.7		60 - 140	78%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PP073467.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PP073467.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PP073467.D	1		07/02/25	PP070225

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	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.8		60 - 140	79%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-PP073482.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PP073482.D	Matrix:	WATER
Analytical Method:	8082A	% 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
PP073482.D	1		07/03/25	PP070225

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	15.8		60 - 140	79%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.4		60 - 140	72%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168671BS	SDG No.:	Q2458
Lab Sample ID:	PB168671BS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 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
PO111935.D	1	07/01/25 08:30	07/01/25 16:45	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	163		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	167		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		32 - 175	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168704BS	SDG No.:	Q2458
Lab Sample ID:	PB168704BS	Matrix:	WATER
Analytical Method:	8082A	% 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
PO111987.D	1	07/02/25 12:10	07/02/25 18:03	PB168704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	5.00		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	5.00		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		30 - 173	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		10 - 173	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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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168704BSD		SDG No.:	Q2458	
Lab Sample ID:	PB168704BSD		Matrix:	WATER	
Analytical Method:	8082A		% 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
PO111988.D	1	07/02/25 12:10	07/02/25 18:20	PB168704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.90		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	5.00		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		30 - 173	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		10 - 173	103%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-02MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	91.4 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
PO111938.D	1	07/01/25 08:30	07/01/25 17:37	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	155		4.30	18.6	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.6	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.6	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.6	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.6	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.6	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.6	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.6	ug/kg
11096-82-5	Aroclor-1260	139		3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		32 - 144	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.2		32 - 175	76%	SPK: 20

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-02MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.05 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
PO111939.D	1	07/01/25 08:30	07/01/25 17:54	PB168671

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	172		4.30	18.6	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.6	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.6	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.6	ug/kg
12672-29-6	Aroclor-1248	6.50	U	6.50	18.6	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.6	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	18.6	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.6	ug/kg
11096-82-5	Aroclor-1260	141		3.50	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.4		32 - 144	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		32 - 175	77%	SPK: 20

Comments:

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LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			Herbicide	8151A		07/02/25	07/08/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Herbicide	8151A		07/02/25	07/07/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			Herbicide	8151A		07/02/25	07/07/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	

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LAB CHRONICLE

			Herbicide	8151A		07/02/25	07/07/25
			PCB	8082A		07/01/25	07/01/25
			Pesticide-TCL	8081B		07/01/25	07/01/25
Q2458-06	**TP-60**	**SOIL**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25
			Gasoline Range Organics	8015D			06/30/25
			Herbicide	8151A		07/02/25	07/07/25
			PCB	8082A		07/01/25	07/01/25
			Pesticide-TCL	8081B		07/01/25	07/01/25
Q2458-07	**TP-62**	**SOIL**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25
			Gasoline Range Organics	8015D			07/01/25
			Herbicide	8151A		07/02/25	07/07/25
			PCB	8082A		07/01/25	07/01/25
			Pesticide-TCL	8081B		07/01/25	07/01/25
Q2458-08	**TP-63**	**SOIL**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25
			Gasoline Range Organics	8015D			06/30/25
			Herbicide	8151A		07/02/25	07/07/25
			PCB	8082A		07/01/25	07/01/25
			Pesticide-TCL	8081B		07/01/25	07/01/25
Q2458-09	**TP-59**	**SOIL**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25
			Gasoline Range Organics	8015D			06/30/25
			Herbicide	8151A		07/02/25	07/07/25
			PCB	8082A		07/01/25	07/02/25
			Pesticide-TCL	8081B		07/01/25	07/01/25
Q2458-10	**FB-06272025**	**Water**			**06/27/25**		**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25
			Gasoline Range Organics	8015D			07/01/25
			Herbicide	8151A		07/03/25	07/08/25
			PCB	8082A		07/02/25	07/02/25
			Pesticide-TCL	8081B		07/03/25	07/03/25

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030946.D	1	07/02/25 11:30	07/08/25 11:55	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.9	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.9	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	73.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.9	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.9	ug/Kg
94-82-6	2,4-DB	26.7	U	26.7	73.9	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	278		10 - 141	56%	SPK: 500

Comments:

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MDL = Method Detection Limit
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030918.D	1	07/02/25 11:30	07/07/25 10:37	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.2	ug/Kg
120-36-5	DICHLORPROP	14.0	U	14.0	73.2	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.90	U	9.90	73.2	ug/Kg
93-76-5	2,4,5-T	9.50	U	9.50	73.2	ug/Kg
94-82-6	2,4-DB	26.4	U	26.4	73.2	ug/Kg
88-85-7	DINOSEB	11.8	U	11.8	73.2	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	60.6		10 - 141	12%	SPK: 500

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030919.D	1	07/02/25 11:30	07/07/25 11:01	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.40	U	8.40	72.5	ug/Kg
120-36-5	DICHLORPROP	13.9	U	13.9	72.5	ug/Kg
94-75-7	2,4-D	9.80	U	9.80	72.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.80	U	9.80	72.5	ug/Kg
93-76-5	2,4,5-T	9.40	U	9.40	72.5	ug/Kg
94-82-6	2,4-DB	26.2	U	26.2	72.5	ug/Kg
88-85-7	DINOSEB	11.7	U	11.7	72.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	262		10 - 141	52%	SPK: 500

Comments:

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LOD = Limit of Detection
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030920.D	1	07/02/25 11:30	07/07/25 11:26	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.60	U	8.60	74.5	ug/Kg
120-36-5	DICHLORPROP	14.2	U	14.2	74.5	ug/Kg
94-75-7	2,4-D	10.1	U	10.1	74.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.1	U	10.1	74.5	ug/Kg
93-76-5	2,4,5-T	9.70	U	9.70	74.5	ug/Kg
94-82-6	2,4-DB	26.9	U	26.9	74.5	ug/Kg
88-85-7	DINOSEB	12.0	U	12.0	74.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	352		10 - 141	70%	SPK: 500

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.3 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030921.D	1	07/02/25 11:30	07/07/25 11:50	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.80	U	8.80	75.8	ug/Kg
120-36-5	DICHLORPROP	14.5	U	14.5	75.8	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.8	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.8	ug/Kg
94-82-6	2,4-DB	27.4	U	27.4	75.8	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	260		10 - 141	52%	SPK: 500

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:	CDM Smith		Date Collected:	06/27/25	
Project:	South River WM Replacement		Date Received:	06/27/25	
Client Sample ID:	TP-60		SDG No.:	Q2458	
Lab Sample ID:	Q2458-06		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	92.5	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030922.D	1	07/02/25 11:30	07/07/25 12:14	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.40	U	8.40	72.3	ug/Kg
120-36-5	DICHLORPROP	13.8	U	13.8	72.3	ug/Kg
94-75-7	2,4-D	9.80	U	9.80	72.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.80	U	9.80	72.3	ug/Kg
93-76-5	2,4,5-T	9.40	U	9.40	72.3	ug/Kg
94-82-6	2,4-DB	26.1	U	26.1	72.3	ug/Kg
88-85-7	DINOSEB	11.6	U	11.6	72.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	174		10 - 141	35%	SPK: 500

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030923.D	1	07/02/25 11:30	07/07/25 12:38	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.5	ug/Kg
120-36-5	DICHLORPROP	14.0	U	14.0	73.5	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.90	U	9.90	73.5	ug/Kg
93-76-5	2,4,5-T	9.50	U	9.50	73.5	ug/Kg
94-82-6	2,4-DB	26.5	U	26.5	73.5	ug/Kg
88-85-7	DINOSEB	11.8	U	11.8	73.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	75.5		10 - 141	15%	SPK: 500

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:	CDM Smith		Date Collected:	06/27/25	
Project:	South River WM Replacement		Date Received:	06/27/25	
Client Sample ID:	TP-63		SDG No.:	Q2458	
Lab Sample ID:	Q2458-08		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	86.4	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030924.D	1	07/02/25 11:30	07/07/25 13:02	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	77.4	ug/Kg
120-36-5	DICHLORPROP	14.8	U	14.8	77.4	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	77.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.5	U	10.5	77.4	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	77.4	ug/Kg
94-82-6	2,4-DB	28.0	U	28.0	77.4	ug/Kg
88-85-7	DINOSEB	12.5	U	12.5	77.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	121		10 - 141	24%	SPK: 500

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:	CDM Smith		Date Collected:	06/27/25	
Project:	South River WM Replacement		Date Received:	06/27/25	
Client Sample ID:	TP-59		SDG No.:	Q2458	
Lab Sample ID:	Q2458-09		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	76.6	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030925.D	1	07/02/25 11:30	07/07/25 13:27	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.1	U	10.1	87.2	ug/Kg
120-36-5	DICHLORPROP	16.7	U	16.7	87.2	ug/Kg
94-75-7	2,4-D	11.8	U	11.8	87.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.8	U	11.8	87.2	ug/Kg
93-76-5	2,4,5-T	11.3	U	11.3	87.2	ug/Kg
94-82-6	2,4-DB	31.5	U	31.5	87.2	ug/Kg
88-85-7	DINOSEB	14.1	U	14.1	87.2	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	223		10 - 141	45%	SPK: 500

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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030954.D	1	07/03/25 08:57	07/08/25 15:16	PB168717

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.66	U	0.66	2.00	ug/L
120-36-5	DICHLORPROP	0.78	U	0.78	2.00	ug/L
94-75-7	2,4-D	0.94	U	0.94	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.80	U	0.80	2.00	ug/L
93-76-5	2,4,5-T	0.72	U	0.72	2.00	ug/L
94-82-6	2,4-DB	0.66	U	0.66	2.00	ug/L
88-85-7	DINOSEB	0.91	U	0.91	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	448		61 - 136	90%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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

Alliance TECHNICAL GROUP
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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PS030738.D	PIBLK-PS030738.D	2,4-DCAA	1	500	414	83		61	136
		2,4-DCAA	2	500	487	97		61	136
I.BLK-PS030916.D	PIBLK-PS030916.D	2,4-DCAA	1	500	421	84		61	136
		2,4-DCAA	2	500	481	96		61	136
Q2458-02	TP-55	2,4-DCAA	1	500	60.0	12		10	141
		2,4-DCAA	2	500	60.6	12		10	141
Q2458-03	TP-68	2,4-DCAA	1	500	262	52		10	141
		2,4-DCAA	2	500	250	50		10	141
Q2458-04	TP-67	2,4-DCAA	1	500	350	70		10	141
		2,4-DCAA	2	500	352	70		10	141
Q2458-05	TP-66	2,4-DCAA	1	500	216	43		10	141
		2,4-DCAA	2	500	260	52		10	141
Q2458-06	TP-60	2,4-DCAA	1	500	166	33		10	141
		2,4-DCAA	2	500	174	35		10	141
Q2458-07	TP-62	2,4-DCAA	1	500	69.9	14		10	141
		2,4-DCAA	2	500	75.5	15		10	141
Q2458-08	TP-63	2,4-DCAA	1	500	102	20		10	141
		2,4-DCAA	2	500	121	24		10	141
Q2458-09	TP-59	2,4-DCAA	1	500	213	43		10	141
		2,4-DCAA	2	500	223	45		10	141
I.BLK-PS030927.D	PIBLK-PS030927.D	2,4-DCAA	1	500	468	94		61	136
		2,4-DCAA	2	500	502	100		61	136
I.BLK-PS030943.D	PIBLK-PS030943.D	2,4-DCAA	1	500	481	96		61	136
		2,4-DCAA	2	500	497	99		61	136
Q2458-01	TP-76	2,4-DCAA	1	500	278	56		10	141
		2,4-DCAA	2	500	275	55		10	141
PB168706BL	PB168706BL	2,4-DCAA	1	500	452	90		10	141
		2,4-DCAA	2	500	489	98		10	141
Q2458-01MS	TP-76MS	2,4-DCAA	1	500	341	68		10	141
		2,4-DCAA	2	500	375	75		10	141
Q2458-01MSD	TP-76MSD	2,4-DCAA	1	500	347	69		10	141
		2,4-DCAA	2	500	378	76		10	141
PB168717BL	PB168717BL	2,4-DCAA	1	500	448	90		61	136
		2,4-DCAA	2	500	479	96		61	136
PB168717BS	PB168717BS	2,4-DCAA	1	500	534	107		61	136
		2,4-DCAA	2	500	509	102		61	136
PB168717BSD	PB168717BSD	2,4-DCAA	1	500	539	108		61	136
		2,4-DCAA	2	500	510	102		61	136
Q2458-10	FB-06272025	2,4-DCAA	1	500	437	87		61	136
		2,4-DCAA	2	500	448	90		61	136
I.BLK-PS030955.D	PIBLK-PS030955.D	2,4-DCAA	1	500	455	91		61	136

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Surrogate Summary

SDG No.: Q2458

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PS030955.D	PIBLK-PS030955.D	2,4-DCAA	2	500	469	94		61	136
I.BLK-PS030958.D	PIBLK-PS030958.D	2,4-DCAA	1	500	456	91		61	136
		2,4-DCAA	2	500	462	92		61	136
PB168706BS	PB168706BS	2,4-DCAA	1	500	538	108		10	141
		2,4-DCAA	2	500	503	101		10	141
I.BLK-PS030966.D	PIBLK-PS030966.D	2,4-DCAA	1	500	449	90		61	136
		2,4-DCAA	2	500	467	93		61	136

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030949.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2458-01MS (Column 1)**	**Client Sample ID:**		**TP-76MS**								
	DICAMBA	183.4	0	86.9	ug/Kg	47				10	112	
	DICHLORPROP	183.4	0	95.6	ug/Kg	52				10	113	
	2,4-D	183.4	0	138	ug/Kg	75				10	144	
	2,4,5-TP(Silvex)	183.4	0	95.3	ug/Kg	52				10	114	
	2,4,5-T	183.4	0	99.8	ug/Kg	54				10	115	
	2,4-DB	183.4	0	97.1	ug/Kg	53				10	140	
	Dinoseb	183.4	0	0	ug/Kg	0	*			10	118	
Lab Sample ID:	**Q2458-01MS (Column 2)**	**Client Sample ID:**		**TP-76MS**								
	DICAMBA	183.4	0	84.8	ug/Kg	46				10	112	
	DICHLORPROP	183.4	0	103	ug/Kg	56				10	113	
	2,4-D	183.4	0	94.4	ug/Kg	51				10	144	
	2,4,5-TP(Silvex)	183.4	0	97.3	ug/Kg	53				10	114	
	2,4,5-T	183.4	0	91.0	ug/Kg	50				10	115	
	2,4-DB	183.4	0	85.1	ug/Kg	46				10	140	
	Dinoseb	183.4	0	0	ug/Kg	0	*			10	118	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030950.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2458-01MSD (Column 1)**	**Client Sample ID:**		**TP-76MSD**								
	DICAMBA	183.6	0	88.8	ug/Kg	48		2		10	112	20
	DICHLORPROP	183.6	0	95.0	ug/Kg	52		0		10	113	20
	2,4-D	183.6	0	139	ug/Kg	76		1		10	144	20
	2,4,5-TP(Silvex)	183.6	0	95.9	ug/Kg	52		0		10	114	20
	2,4,5-T	183.6	0	101	ug/Kg	55		2		10	115	20
	2,4-DB	183.6	0	95.5	ug/Kg	52		2		10	140	20
	Dinoseb	183.6	0	0	ug/Kg	0	*	0		10	118	20
Lab Sample ID:	**Q2458-01MSD (Column 2)**	**Client Sample ID:**		**TP-76MSD**								
	DICAMBA	183.6	0	86.3	ug/Kg	47		2		10	112	20
	DICHLORPROP	183.6	0	99.3	ug/Kg	54		4		10	113	20
	2,4-D	183.6	0	95.4	ug/Kg	52		2		10	144	20
	2,4,5-TP(Silvex)	183.6	0	96.8	ug/Kg	53		0		10	114	20
	2,4,5-T	183.6	0	90.4	ug/Kg	49		2		10	115	20
	2,4-DB	183.6	0	98.8	ug/Kg	54		16		10	140	20
	Dinoseb	183.6	0	0	ug/Kg	0	*	0		10	118	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030952.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168717BS (Column 1)	DICAMBA	5	5.10	ug/L	102				67	136	
	DICHLORPROP	5	4.90	ug/L	98				88	119	
	2,4-D	5	5.20	ug/L	104				83	130	
	2,4,5-TP(Silvex)	5	5.30	ug/L	106				78	127	
	2,4,5-T	5	5.70	ug/L	114				74	129	
	2,4-DB	5	6.00	ug/L	120				53	149	
	Dinoseb	5	5.10	ug/L	102				72	131	
PB168717BS (Column 2)	DICAMBA	5	4.90	ug/L	98				67	136	
	DICHLORPROP	5	4.70	ug/L	94				88	119	
	2,4-D	5	4.60	ug/L	92				83	130	
	2,4,5-TP(Silvex)	5	5.00	ug/L	100				78	127	
	2,4,5-T	5	5.10	ug/L	102				74	129	
	2,4-DB	5	4.90	ug/L	98				53	149	
	Dinoseb	5	4.60	ug/L	92				72	131	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030953.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168717BSD (Column 1)	DICAMBA	5	5.00	ug/L	100	2			67	136	20
	DICHLORPROP	5	4.90	ug/L	98	0			88	119	20
	2,4-D	5	5.90	ug/L	118	13			83	130	20
	2,4,5-TP(Silvex)	5	5.30	ug/L	106	0			78	127	20
	2,4,5-T	5	5.60	ug/L	112	2			74	129	20
	2,4-DB	5	6.00	ug/L	120	0			53	149	20
	Dinoseb	5	5.10	ug/L	102	0			72	131	20
PB168717BSD (Column 2)	DICAMBA	5	4.90	ug/L	98	0			67	136	20
	DICHLORPROP	5	4.70	ug/L	94	0			88	119	20
	2,4-D	5	4.90	ug/L	98	6			83	130	20
	2,4,5-TP(Silvex)	5	5.00	ug/L	100	0			78	127	20
	2,4,5-T	5	5.10	ug/L	102	0			74	129	20
	2,4-DB	5	4.90	ug/L	98	0			53	149	20
	Dinoseb	5	4.70	ug/L	94	2			72	131	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2458 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030965.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168706BS (Column 1)	DICAMBA	166.5	171	ug/Kg	103				72	129	
	DICHLORPROP	166.5	163	ug/Kg	98				77	135	
	2,4-D	166.5	184	ug/Kg	111				65	144	
	2,4,5-TP(Silvex)	166.5	176	ug/Kg	106				74	146	
	2,4,5-T	166.5	183	ug/Kg	110				77	134	
	2,4-DB	166.5	192	ug/Kg	115				72	122	
	Dinoseb	166.5	170	ug/Kg	102				74	132	
PB168706BS (Column 2)	DICAMBA	166.5	161	ug/Kg	97				72	129	
	DICHLORPROP	166.5	159	ug/Kg	95				77	135	
	2,4-D	166.5	153	ug/Kg	92				65	144	
	2,4,5-TP(Silvex)	166.5	167	ug/Kg	100				74	146	
	2,4,5-T	166.5	167	ug/Kg	100				77	134	
	2,4-DB	166.5	161	ug/Kg	97				72	122	
	Dinoseb	166.5	155	ug/Kg	93				74	132	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168706BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab Sample ID: PB168706BL | Lab File ID: PS030947.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/02/2025

Date Analyzed (1): 07/08/2025 | Date Analyzed (2): 07/08/2025

Time Analyzed (1): 12:19 | Time Analyzed (2): 12:19

Instrument ID (1): ECD_S | Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) | GC Column (2): RTX-CLP2 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
TP-55	Q2458-02	PS030918.D	07/07/2025	07/07/2025
TP-68	Q2458-03	PS030919.D	07/07/2025	07/07/2025
TP-67	Q2458-04	PS030920.D	07/07/2025	07/07/2025
TP-66	Q2458-05	PS030921.D	07/07/2025	07/07/2025
TP-60	Q2458-06	PS030922.D	07/07/2025	07/07/2025
TP-62	Q2458-07	PS030923.D	07/07/2025	07/07/2025
TP-63	Q2458-08	PS030924.D	07/07/2025	07/07/2025
TP-59	Q2458-09	PS030925.D	07/07/2025	07/07/2025
TP-76	Q2458-01	PS030946.D	07/08/2025	07/08/2025
TP-76MS	Q2458-01MS	PS030949.D	07/08/2025	07/08/2025
TP-76MSD	Q2458-01MSD	PS030950.D	07/08/2025	07/08/2025
PB168706BS	PB168706BS	PS030965.D	07/09/2025	07/09/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168717BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2458

Lab Sample ID: PB168717BL | Lab File ID: PS030951.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/03/2025

Date Analyzed (1): 07/08/2025 | Date Analyzed (2): 07/08/2025

Time Analyzed (1): 13:56 | Time Analyzed (2): 13:56

Instrument ID (1): ECD_S | Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) | GC Column (2): RTX-CLP2 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
PB168717BS	PB168717BS	PS030952.D	07/08/2025	07/08/2025
PB168717BSD	PB168717BSD	PS030953.D	07/08/2025	07/08/2025
FB-06272025	Q2458-10	PS030954.D	07/08/2025	07/08/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168706BL	SDG No.:	Q2458
Lab Sample ID:	PB168706BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030947.D	1	07/02/25 11:30	07/08/25 12:19	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	7.70	U	7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	12.8	U	12.8	67.0	ug/Kg
94-75-7	2,4-D	9.00	U	9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.10	U	9.10	67.0	ug/Kg
93-76-5	2,4,5-T	8.70	U	8.70	67.0	ug/Kg
94-82-6	2,4-DB	24.2	U	24.2	67.0	ug/Kg
88-85-7	DINOSEB	10.8	U	10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	489		10 - 141	98%	SPK: 500

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168717BL	SDG No.:	Q2458
Lab Sample ID:	PB168717BL	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030951.D	1	07/03/25 08:57	07/08/25 13:56	PB168717

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	479		61 - 136	96%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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:	CDM Smith	Date Collected:	06/18/25
Project:	South River WM Replacement	Date Received:	06/18/25
Client Sample ID:	PIBLK-PS030738.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030738.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030738.D	1		06/18/25	PS061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	487		61 - 136	97%	SPK: 500

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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	PIBLK-PS030916.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030916.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030916.D	1		07/07/25	PS070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	481		61 - 136	96%	SPK: 500

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:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	PIBLK-PS030927.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030927.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030927.D	1		07/07/25	PS070725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	502		61 - 136	100%	SPK: 500

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
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:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-PS030943.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030943.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030943.D	1		07/08/25	PS070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	497		61 - 136	99%	SPK: 500

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:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-PS030955.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030955.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030955.D	1		07/08/25	ps070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	469		61 - 136	94%	SPK: 500

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:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-PS030958.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030958.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030958.D	1		07/09/25	PS070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	462		61 - 136	92%	SPK: 500

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:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-PS030966.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-PS030966.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030966.D	1		07/09/25	ps070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	467		61 - 136	93%	SPK: 500

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168706BS	SDG No.:	Q2458
Lab Sample ID:	PB168706BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030965.D	1	07/02/25 11:30	07/09/25 14:04	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	171		7.70	66.9	ug/Kg
120-36-5	DICHLORPROP	163		12.8	66.9	ug/Kg
94-75-7	2,4-D	184		9.00	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	176		9.10	66.9	ug/Kg
93-76-5	2,4,5-T	183		8.70	66.9	ug/Kg
94-82-6	2,4-DB	192		24.2	66.9	ug/Kg
88-85-7	DINOSEB	170		10.8	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	538		10 - 141	108%	SPK: 500

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168717BS	SDG No.:	Q2458
Lab Sample ID:	PB168717BS	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030952.D	1	07/03/25 08:57	07/08/25 14:20	PB168717

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	5.10		0.65	2.00	ug/L
120-36-5	DICHLORPROP	4.90		0.76	2.00	ug/L
94-75-7	2,4-D	5.20		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.30		0.78	2.00	ug/L
93-76-5	2,4,5-T	5.70		0.71	2.00	ug/L
94-82-6	2,4-DB	6.00		0.65	2.00	ug/L
88-85-7	DINOSEB	5.10		0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	534		61 - 136	107%	SPK: 500

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168717BSD	SDG No.:	Q2458
Lab Sample ID:	PB168717BSD	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030953.D	1	07/03/25 08:57	07/08/25 14:52	PB168717

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	5.00		0.65	2.00	ug/L
120-36-5	DICHLORPROP	4.90		0.76	2.00	ug/L
94-75-7	2,4-D	5.90		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.30		0.78	2.00	ug/L
93-76-5	2,4,5-T	5.60		0.71	2.00	ug/L
94-82-6	2,4-DB	6.00		0.65	2.00	ug/L
88-85-7	DINOSEB	5.10		0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	539		61 - 136	108%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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
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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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-01MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030949.D	1	07/02/25 11:30	07/08/25 13:07	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	86.9		8.50	73.7	ug/Kg
120-36-5	DICHLORPROP	103		14.1	73.7	ug/Kg
94-75-7	2,4-D	138		9.90	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	97.3		10.0	73.7	ug/Kg
93-76-5	2,4,5-T	99.8		9.60	73.7	ug/Kg
94-82-6	2,4-DB	97.1		26.6	73.7	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	375		10 - 141	75%	SPK: 500

Comments:

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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
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-01MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030950.D	1	07/02/25 11:30	07/08/25 13:32	PB168706

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	88.8		8.50	73.8	ug/Kg
120-36-5	DICHLORPROP	99.3		14.1	73.8	ug/Kg
94-75-7	2,4-D	139		10.0	73.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	96.8		10.0	73.8	ug/Kg
93-76-5	2,4,5-T	101		9.60	73.8	ug/Kg
94-82-6	2,4-DB	98.8		26.7	73.8	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	378		10 - 141	76%	SPK: 500

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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
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CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030739.D RT 500 = PS030740.D
RT 750 = PS030741.D RT 1000 = PS030742.D RT 1500 = PS030743.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.67	9.67	9.67	9.67	9.67	9.67	9.57	9.77
2,4,5-TP(Silvex)	9.38	9.38	9.38	9.38	9.38	9.38	9.28	9.48
2,4-D	8.49	8.49	8.49	8.49	8.49	8.49	8.39	8.59
2,4-DB	10.25	10.25	10.25	10.25	10.25	10.25	10.15	10.35
2,4-DCAA	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
DICAMBA	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
DICHLORPROP	8.25	8.25	8.25	8.25	8.25	8.25	8.15	8.35
Dinoseb	11.47	11.47	11.47	11.47	11.47	11.47	11.37	11.57

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030739.D RT 500 = PS030740.D
RT 750 = PS030741.D RT 1000 = PS030742.D RT 1500 = PS030743.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.36	10.36	10.36	10.36	10.36	10.36	10.26	10.46
2,4,5-TP(Silvex)	9.93	9.93	9.93	9.93	9.93	9.93	9.83	10.03
2,4-D	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-DB	10.93	10.93	10.93	10.93	10.93	10.93	10.83	11.03
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
DICAMBA	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
DICHLORPROP	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Dinoseb	11.31	11.31	11.31	11.31	11.31	11.31	11.21	11.41

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID: CF 200 = PS030739.D CF 500 = PS030740.D
CF 750 = PS030741.D CF 1000 = PS030742.D CF 1500 = PS030743.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	17256700000	16680000000	16830000000	16187900000	15311000000	16453200000	5
2,4,5-TP(Silvex)	22282500000	20395400000	19977900000	18863900000	18632300000	20030400000	7
2,4-D	3868070000	3398090000	3305570000	3150720000	3499600000	3444410000	8
2,4-DB	2481600000	2363020000	2407410000	2376040000	1839440000	2293500000	11
2,4-DCAA	4451200000	3788090000	3593380000	3449860000	3089450000	3674390000	14
DICAMBA	17792700000	15914300000	15443300000	14605900000	12319200000	15215100000	13
DICHLORPROP	4637630000	3720970000	3496760000	3281660000	3591790000	3745760000	14
Dinoseb	15211800000	14001800000	13914000000	13244000000	12994300000	13873200000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2458
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID: CF 200 = PS030739.D CF 500 = PS030740.D
CF 750 = PS030741.D CF 1000 = PS030742.D CF 1500 = PS030743.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	15648900000	14018900000	13695900000	12933300000	12026100000	13664600000	10
2,4,5-TP(Silvex)	16493700000	14706300000	14316500000	13463300000	13163600000	14428700000	9
2,4-D	1965540000	1671750000	1622570000	1523690000	1713470000	1699410000	10
2,4-DB	1373320000	1199380000	1163600000	1108750000	1069470000	1182900000	10
2,4-DCAA	1283250000	1084080000	1050700000	993038000	948747000	1071960000	12
DICAMBA	7304970000	6653080000	6566460000	6277600000	5963960000	6553210000	8
DICHLORPROP	1855180000	1562920000	1498450000	1412800000	1533120000	1572500000	11
Dinoseb	12099400000	10862400000	10728600000	10218500000	9997410000	10781200000	8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/07/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 10:01 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/07/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 10:01 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030917.D **Time Analyzed:** 10:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.652	9.568	9.768	748.000	712.500	5.0
2,4,5-TP(Silvex)	9.358	9.275	9.475	696.660	712.500	-2.2
2,4-D	8.472	8.386	8.586	674.060	705.000	-4.4
2,4-DB	10.229	10.147	10.347	737.940	712.500	3.6
2,4-DCAA	7.337	7.249	7.449	690.210	750.000	-8.0
DICAMBA	7.526	7.439	7.639	672.540	705.000	-4.6
DICHLORPROP	8.240	8.153	8.353	630.010	705.000	-10.6
Dinoseb	11.446	11.366	11.566	693.780	705.000	-1.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030917.D **Time Analyzed:** 10:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.354	10.259	10.459	711.460	712.500	-0.1
2,4,5-TP(Silvex)	9.929	9.833	10.033	701.470	712.500	-1.5
2,4-D	9.024	8.927	9.127	668.430	705.000	-5.2
2,4-DB	10.922	10.827	11.027	689.590	712.500	-3.2
2,4-DCAA	7.767	7.670	7.870	717.630	750.000	-4.3
DICAMBA	7.969	7.872	8.072	695.230	705.000	-1.4
DICHLORPROP	8.688	8.591	8.791	656.420	705.000	-6.9
Dinoseb	11.307	11.211	11.411	670.630	705.000	-4.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/07/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 19:11 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.44	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/07/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 19:11 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030928.D **Time Analyzed:** 19:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.651	9.568	9.768	748.840	712.500	5.1
2,4,5-TP(Silvex)	9.357	9.275	9.475	704.070	712.500	-1.2
2,4-D	8.471	8.386	8.586	678.950	705.000	-3.7
2,4-DB	10.228	10.147	10.347	805.880	712.500	13.1
2,4-DCAA	7.336	7.249	7.449	705.080	750.000	-6.0
DICAMBA	7.526	7.439	7.639	681.450	705.000	-3.3
DICHLORPROP	8.239	8.153	8.353	640.190	705.000	-9.2
Dinoseb	11.444	11.366	11.566	689.280	705.000	-2.2

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030928.D **Time Analyzed:** 19:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.354	10.259	10.459	685.380	712.500	-3.8
2,4,5-TP(Silvex)	9.928	9.833	10.033	679.920	712.500	-4.6
2,4-D	9.023	8.927	9.127	639.930	705.000	-9.2
2,4-DB	10.921	10.827	11.027	670.940	712.500	-5.8
2,4-DCAA	7.766	7.670	7.870	691.990	750.000	-7.7
DICAMBA	7.968	7.872	8.072	671.890	705.000	-4.7
DICHLORPROP	8.687	8.591	8.791	637.410	705.000	-9.6
Dinoseb	11.306	11.211	11.411	648.840	705.000	-8.0

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:27 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.44	11.47	11.37	11.57	0.03

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:27 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.01
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.36	10.26	10.46	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/08/2025

Lab Sample No.: PSTDCCC750 **Data File :** PS030944.D **Time Analyzed:** 09:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.651	9.568	9.768	770.730	712.500	8.2
2,4,5-TP(Silvex)	9.357	9.275	9.475	720.850	712.500	1.2
2,4-D	8.470	8.386	8.586	697.260	705.000	-1.1
2,4-DB	10.227	10.147	10.347	791.680	712.500	11.1
2,4-DCAA	7.336	7.249	7.449	733.720	750.000	-2.2
DICAMBA	7.525	7.439	7.639	690.450	705.000	-2.1
DICHLORPROP	8.238	8.153	8.353	650.710	705.000	-7.7
Dinoseb	11.444	11.366	11.566	691.050	705.000	-2.0

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/08/2025

Lab Sample No.: PSTDCCC750 **Data File :** PS030944.D **Time Analyzed:** 09:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.353	10.259	10.459	690.590	712.500	-3.1
2,4,5-TP(Silvex)	9.927	9.833	10.033	686.060	712.500	-3.7
2,4-D	9.022	8.927	9.127	643.990	705.000	-8.7
2,4-DB	10.921	10.827	11.027	675.660	712.500	-5.2
2,4-DCAA	7.765	7.670	7.870	691.710	750.000	-7.8
DICAMBA	7.967	7.872	8.072	676.030	705.000	-4.1
DICHLORPROP	8.686	8.591	8.791	652.190	705.000	-7.5
Dinoseb	11.305	11.211	11.411	642.510	705.000	-8.9

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 16:05 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/08/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 16:05 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.93	9.83	10.03	-0.01
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.32	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030956.D **Time Analyzed:** 16:05

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.654	9.568	9.768	763.100	712.500	7.1
2,4,5-TP(Silvex)	9.359	9.275	9.475	711.640	712.500	-0.1
2,4-D	8.473	8.386	8.586	693.790	705.000	-1.6
2,4-DB	10.231	10.147	10.347	786.470	712.500	10.4
2,4-DCAA	7.338	7.249	7.449	797.680	750.000	6.4
DICAMBA	7.527	7.439	7.639	688.250	705.000	-2.4
DICHLORPROP	8.241	8.153	8.353	643.890	705.000	-8.7
Dinoseb	11.449	11.366	11.566	696.870	705.000	-1.2

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/08/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030956.D **Time Analyzed:** 16:05

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.361	10.259	10.459	683.490	712.500	-4.1
2,4,5-TP(Silvex)	9.935	9.833	10.033	676.910	712.500	-5.0
2,4-D	9.028	8.927	9.127	670.510	705.000	-4.9
2,4-DB	10.929	10.827	11.027	668.780	712.500	-6.1
2,4-DCAA	7.770	7.670	7.870	683.440	750.000	-8.9
DICAMBA	7.973	7.872	8.072	663.860	705.000	-5.8
DICHLORPROP	8.693	8.591	8.791	640.710	705.000	-9.1
Dinoseb	11.315	11.211	11.411	644.320	705.000	-8.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 11:36 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.66	9.67	9.57	9.77	0.01
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 11:36 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.76	7.77	7.67	7.87	0.01
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/09/2025

Lab Sample No.: PSTDCCC750 **Data File :** PS030959.D **Time Analyzed:** 11:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.656	9.568	9.768	725.530	712.500	1.8
2,4,5-TP(Silvex)	9.361	9.275	9.475	678.460	712.500	-4.8
2,4-D	8.474	8.386	8.586	643.260	705.000	-8.8
2,4-DB	10.233	10.147	10.347	758.610	712.500	6.5
2,4-DCAA	7.338	7.249	7.449	683.770	750.000	-8.8
DICAMBA	7.528	7.439	7.639	643.540	705.000	-8.7
DICHLORPROP	8.241	8.153	8.353	643.260	705.000	-8.8
Dinoseb	11.451	11.366	11.566	661.940	705.000	-6.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/09/2025

Lab Sample No.: PSTDCCC750 **Data File :** PS030959.D **Time Analyzed:** 11:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.357	10.259	10.459	629.350	712.500	-11.7
2,4,5-TP(Silvex)	9.931	9.833	10.033	622.060	712.500	-12.7
2,4-D	9.024	8.927	9.127	614.410	705.000	-12.8
2,4-DB	10.925	10.827	11.027	607.740	712.500	-14.7
2,4-DCAA	7.764	7.670	7.870	694.400	750.000	-7.4
DICAMBA	7.967	7.872	8.072	602.990	705.000	-14.5
DICHLORPROP	8.687	8.591	8.791	588.230	705.000	-16.6
Dinoseb	11.311	11.211	11.411	586.380	705.000	-16.8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 14:52 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.65	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 14:52 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.93	10.93	10.83	11.03	0.00
Dinoseb	11.31	11.31	11.21	11.41	0.00

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/09/2025

Lab Sample No.: PSTDCCC750 **Data File :** PS030967.D **Time Analyzed:** 14:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.653	9.568	9.768	709.820	712.500	-0.4
2,4,5-TP(Silvex)	9.359	9.275	9.475	668.070	712.500	-6.2
2,4-D	8.471	8.386	8.586	643.940	705.000	-8.7
2,4-DB	10.231	10.147	10.347	759.090	712.500	6.5
2,4-DCAA	7.337	7.249	7.449	668.070	750.000	-10.9
DICAMBA	7.526	7.439	7.639	648.820	705.000	-8.0
DICHLORPROP	8.240	8.153	8.353	607.260	705.000	-13.9
Dinoseb	11.447	11.366	11.566	644.130	705.000	-8.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL06 **Date Analyzed:** 07/09/2025

Lab Sample No.: PSTDCCC750 **Data File :** PS030967.D **Time Analyzed:** 14:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.361	10.259	10.459	635.110	712.500	-10.9
2,4,5-TP(Silvex)	9.934	9.833	10.033	629.760	712.500	-11.6
2,4-D	9.028	8.927	9.127	626.500	705.000	-11.1
2,4-DB	10.929	10.827	11.027	617.890	712.500	-13.3
2,4-DCAA	7.769	7.670	7.870	636.310	750.000	-15.2
DICAMBA	7.972	7.872	8.072	613.280	705.000	-13.0
DICHLORPROP	8.692	8.591	8.791	588.860	705.000	-16.5
Dinoseb	11.313	11.211	11.411	588.950	705.000	-16.5

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Fax : 908 789 8922

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/18/2025 06/18/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/18/2025	11:01	PS030738.D	7.35	0.00
HSTDICC200	HSTDICC200	06/18/2025	11:25	PS030739.D	7.35	0.00
HSTDICC500	HSTDICC500	06/18/2025	11:49	PS030740.D	7.35	0.00
HSTDICC750	HSTDICC750	06/18/2025	12:13	PS030741.D	7.35	0.00
HSTDICC1000	HSTDICC1000	06/18/2025	12:37	PS030742.D	7.35	0.00
HSTDICC1500	HSTDICC1500	06/18/2025	13:29	PS030743.D	7.35	0.00
I.BLK	I.BLK	07/07/2025	09:37	PS030916.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/07/2025	10:01	PS030917.D	7.34	0.00
TP-55	Q2458-02	07/07/2025	10:37	PS030918.D	7.34	0.00
TP-68	Q2458-03	07/07/2025	11:01	PS030919.D	7.34	0.00
TP-67	Q2458-04	07/07/2025	11:26	PS030920.D	7.34	0.00
TP-66	Q2458-05	07/07/2025	11:50	PS030921.D	7.34	0.00
TP-60	Q2458-06	07/07/2025	12:14	PS030922.D	7.34	0.00
TP-62	Q2458-07	07/07/2025	12:38	PS030923.D	7.34	0.00
TP-63	Q2458-08	07/07/2025	13:02	PS030924.D	7.34	0.00
TP-59	Q2458-09	07/07/2025	13:27	PS030925.D	7.34	0.00
I.BLK	I.BLK	07/07/2025	18:47	PS030927.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/07/2025	19:11	PS030928.D	7.34	0.00
I.BLK	I.BLK	07/08/2025	08:37	PS030943.D	7.34	0.00
PSTDCCC750	PSTDCCC750	07/08/2025	09:27	PS030944.D	7.34	0.00
TP-76	Q2458-01	07/08/2025	11:55	PS030946.D	7.34	0.00
PB168706BL	PB168706BL	07/08/2025	12:19	PS030947.D	7.34	0.00
TP-76MS	Q2458-01MS	07/08/2025	13:07	PS030949.D	7.34	0.00
TP-76MSD	Q2458-01MSD	07/08/2025	13:32	PS030950.D	7.34	0.00
PB168717BL	PB168717BL	07/08/2025	13:56	PS030951.D	7.34	0.00
PB168717BS	PB168717BS	07/08/2025	14:20	PS030952.D	7.34	0.00
PB168717BSD	PB168717BSD	07/08/2025	14:52	PS030953.D	7.34	0.00
FB-06272025	Q2458-10	07/08/2025	15:16	PS030954.D	7.34	0.00
I.BLK	I.BLK	07/08/2025	15:41	PS030955.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	16:05	PS030956.D	7.34	0.00
I.BLK	I.BLK	07/09/2025	09:32	PS030958.D	7.34	0.00
PSTDCCC750	PSTDCCC750	07/09/2025	11:36	PS030959.D	7.34	0.00
PB168706BS	PB168706BS	07/09/2025	14:04	PS030965.D	7.34	0.00
I.BLK	I.BLK	07/09/2025	14:28	PS030966.D	7.34	0.00
PSTDCCC750	PSTDCCC750	07/09/2025	14:52	PS030967.D	7.34	0.00

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/18/2025 06/18/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/18/2025	11:01	PS030738.D	7.77	0.00
HSTDICC200	HSTDICC200	06/18/2025	11:25	PS030739.D	7.77	0.00
HSTDICC500	HSTDICC500	06/18/2025	11:49	PS030740.D	7.77	0.00
HSTDICC750	HSTDICC750	06/18/2025	12:13	PS030741.D	7.77	0.00
HSTDICC1000	HSTDICC1000	06/18/2025	12:37	PS030742.D	7.77	0.00
HSTDICC1500	HSTDICC1500	06/18/2025	13:29	PS030743.D	7.77	0.00
I.BLK	I.BLK	07/07/2025	09:37	PS030916.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/07/2025	10:01	PS030917.D	7.77	0.00
TP-55	Q2458-02	07/07/2025	10:37	PS030918.D	7.77	0.00
TP-68	Q2458-03	07/07/2025	11:01	PS030919.D	7.77	0.00
TP-67	Q2458-04	07/07/2025	11:26	PS030920.D	7.77	0.00
TP-66	Q2458-05	07/07/2025	11:50	PS030921.D	7.77	0.00
TP-60	Q2458-06	07/07/2025	12:14	PS030922.D	7.77	0.00
TP-62	Q2458-07	07/07/2025	12:38	PS030923.D	7.76	0.00
TP-63	Q2458-08	07/07/2025	13:02	PS030924.D	7.77	0.00
TP-59	Q2458-09	07/07/2025	13:27	PS030925.D	7.77	0.00
I.BLK	I.BLK	07/07/2025	18:47	PS030927.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/07/2025	19:11	PS030928.D	7.77	0.00
I.BLK	I.BLK	07/08/2025	08:37	PS030943.D	7.76	0.00
PSTDCCC750	PSTDCCC750	07/08/2025	09:27	PS030944.D	7.77	0.00
TP-76	Q2458-01	07/08/2025	11:55	PS030946.D	7.77	0.00
PB168706BL	PB168706BL	07/08/2025	12:19	PS030947.D	7.77	0.00
TP-76MS	Q2458-01MS	07/08/2025	13:07	PS030949.D	7.77	0.00
TP-76MSD	Q2458-01MSD	07/08/2025	13:32	PS030950.D	7.77	0.00
PB168717BL	PB168717BL	07/08/2025	13:56	PS030951.D	7.77	0.00
PB168717BS	PB168717BS	07/08/2025	14:20	PS030952.D	7.77	0.00
PB168717BSD	PB168717BSD	07/08/2025	14:52	PS030953.D	7.77	0.00
FB-06272025	Q2458-10	07/08/2025	15:16	PS030954.D	7.77	0.00
I.BLK	I.BLK	07/08/2025	15:41	PS030955.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/08/2025	16:05	PS030956.D	7.77	0.00
I.BLK	I.BLK	07/09/2025	09:32	PS030958.D	7.77	0.00
PSTDCCC750	PSTDCCC750	07/09/2025	11:36	PS030959.D	7.76	0.00
PB168706BS	PB168706BS	07/09/2025	14:04	PS030965.D	7.77	0.00
I.BLK	I.BLK	07/09/2025	14:28	PS030966.D	7.77	0.00
PSTDCCC750	PSTDCCC750	07/09/2025	14:52	PS030967.D	7.77	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168706BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168706BS **Date(s) Analyzed:** 07/09/2025 07/09/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.65	9.60	9.70	183	9.1
	2	10.36	10.31	10.41	167	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	176	5.2
	2	9.93	9.88	9.98	167	
2,4-D	1	8.47	8.42	8.52	184	18.4
	2	9.03	8.98	9.08	153	
2,4-DB	1	10.23	10.18	10.28	192	17.6
	2	10.93	10.88	10.98	161	
DICHLORPROP	1	8.24	8.19	8.29	163	2.5
	2	8.69	8.64	8.74	159	
Dinoseb	1	11.45	11.40	11.50	170	9.2
	2	11.31	11.26	11.36	155	
DICAMBA	1	7.53	7.48	7.58	171	6
	2	7.97	7.92	8.02	161	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168717BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168717BS **Date(s) Analyzed:** 07/08/2025 07/08/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DICHLORPROP	1	8.24	8.19	8.29	4.90	4.2
	2	8.69	8.64	8.74	4.70	
2,4-D	1	8.47	8.42	8.52	5.20	12.2
	2	9.03	8.98	9.08	4.60	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	5.30	5.8
	2	9.93	9.88	9.98	5.00	
2,4,5-T	1	9.65	9.60	9.70	5.70	11.1
	2	10.36	10.31	10.41	5.10	
2,4-DB	1	10.23	10.18	10.28	6.00	20.2
	2	10.93	10.88	10.98	4.90	
Dinoseb	1	11.45	11.40	11.50	5.10	10.3
	2	11.31	11.26	11.36	4.60	
DICAMBA	1	7.53	7.48	7.58	5.10	4
	2	7.97	7.92	8.02	4.90	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168717BSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: PB168717BSD **Date(s) Analyzed:** 07/08/2025 07/08/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DICHLORPROP	1	8.24	8.19	8.29	4.90	4.2
	2	8.69	8.64	8.74	4.70	
2,4-D	1	8.47	8.42	8.52	5.90	18.5
	2	9.03	8.98	9.08	4.90	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	5.30	5.8
	2	9.93	9.88	9.98	5.00	
2,4,5-T	1	9.66	9.61	9.71	5.60	9.3
	2	10.36	10.31	10.41	5.10	
2,4-DB	1	10.24	10.19	10.29	6.00	20.2
	2	10.93	10.88	10.98	4.90	
Dinoseb	1	11.45	11.40	11.50	5.10	8.2
	2	11.31	11.26	11.36	4.70	
DICAMBA	1	7.53	7.48	7.58	5.00	2
	2	7.97	7.92	8.02	4.90	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-76MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-01MS **Date(s) Analyzed:** 07/08/2025 07/08/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DICAMBA	1	7.53	7.48	7.58	86.9	2.4
	2	7.97	7.92	8.02	84.8	
DICHLORPROP	1	8.24	8.19	8.29	95.6	7.5
	2	8.69	8.64	8.74	103	
2,4-D	1	8.47	8.42	8.52	138	37.5
	2	9.03	8.98	9.08	94.4	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	95.3	2.1
	2	9.93	9.88	9.98	97.3	
2,4,5-T	1	9.65	9.60	9.70	99.8	9.2
	2	10.36	10.31	10.41	91.0	
2,4-DB	1	10.23	10.18	10.28	97.1	13.2
	2	10.93	10.88	10.98	85.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-76MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2458

Lab Sample ID: Q2458-01MSD **Date(s) Analyzed:** 07/08/2025 07/08/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.47	8.42	8.52	139	37.2
	2	9.03	8.98	9.08	95.4	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	95.9	0.9
	2	9.94	9.89	9.99	96.8	
2,4,5-T	1	9.66	9.61	9.71	101	11.1
	2	10.36	10.31	10.41	90.4	
2,4-DB	1	10.23	10.18	10.28	95.5	3.4
	2	10.93	10.88	10.98	98.8	
DICHLORPROP	1	8.24	8.19	8.29	95.0	4.4
	2	8.69	8.64	8.74	99.3	
DICAMBA	1	7.53	7.48	7.58	88.8	2.9
	2	7.97	7.92	8.02	86.3	

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LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/03/25	

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LAB CHRONICLE

			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/01/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/02/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-10	**FB-06272025**	**Water**			**06/27/25**			**06/27/25**
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/01/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/03/25	07/03/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016077.D	1	07/02/25 09:17	07/02/25 20:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	21100		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.9		37 - 130	64%	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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.4 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016091.D	5	07/02/25 09:17	07/03/25 10:11	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	48400		923	9100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.13		37 - 130	53%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016079.D	1	07/02/25 09:17	07/02/25 21:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	21100		183	1800	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.51		37 - 130	48%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016080.D	1	07/02/25 09:17	07/02/25 21:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8110		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.5		37 - 130	52%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.3 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016092.D	5	07/02/25 09:17	07/03/25 10:47	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	43300		954	9410	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	3.08		37 - 130	77%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.5 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016093.D	5	07/02/25 09:17	07/03/25 11:17	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	62300		911	8990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.27		37 - 130	57%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.1 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016202.D	1	07/02/25 09:17	07/02/25 16:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3130		185	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.97		37 - 130	45%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016203.D	1	07/02/25 09:17	07/02/25 16:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6010		195	1930	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016204.D	1	07/02/25 09:17	07/02/25 17:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2980		220	2170	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.5		37 - 130	53%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016068.D	1	07/02/25 09:09	07/02/25 15:02	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	47.0	J	6.00	52.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	86%	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

QC SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2458

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016062.D	85				0
PIBLK-FF016073.D	80				0
PIBLK-FF016085.D	88				0
PIBLK-FF016088.D	120				0
PIBLK-FF016094.D	89				0
PIBLK-FF016116.D	100				0
PIBLK-FF016126.D	81				0
PIBLK-FG016199.D	85				0
PIBLK-FG016207.D	84				0
PB168697BL	84				0
PB168697BS	95				0
PB168697BSD	92				0
PB168701BL	79				0
PB168701BS	76				0
TP-76	64				0
TP-55	53				0
TP-68	48				0
TP-67	52				0
TP-67MS	42				0
TP-67MSD	39				0
TP-66	77				0
TP-60	57				0
TP-62	45				0
TP-63	51				0
TP-59	53				0
FB-06272025	86				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : TP-67MS **Datafile:** FF016081.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7420	8110	10715	35%	*	68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : TP-67MSD **Datafile:** FF016082.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7427	8110	10934	38%	*	68-131

MS/MSD % Recovery RPD : 7.9

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SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : PB168701BS **Datafile:** FF016076.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	4984	75	68-131

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WATER DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : PB168697BS **Datafile:** FF016124.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
DRO	200	0	194	97	78-117

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WATER DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

Lab Name: Alliance **Client:** CDM Smith

Lab Code: ACE **SDG No:** Q2458

Client Sample ID : PB168697BSD **Datafile:** FF016125.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
DRO	200	0	189	94	78-117

LCS/LCSD % Recovery RPD : 2.6

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4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PB168697BL

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2458
Lab File ID: FF016065.D
Lab Sample ID: PB168697BL
Instrument ID: ff
Date Extracted: 07/02/2025
Matrix: (soil/water) Water
Date Analyzed: 07/02/25
Level: (low/med) low
Time Analyzed: 13:33

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FB-06272025	Q2458-10	FF016068.D	07/02/25
PB168697BS	PB168697BS	FF016124.D	07/09/25
PB168697BSD	PB168697BSD	FF016125.D	07/09/25

COMMENTS:

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4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PB168701BL

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2458
Lab File ID: FF016075.D
Lab Sample ID: PB168701BL
Instrument ID: ff
Date Extracted: 07/02/2025
Matrix: (soil/water) Soil
Date Analyzed: 07/02/25
Level: (low/med) low
Time Analyzed: 19:06

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168701BS	PB168701BS	FF016076.D	07/02/25
TP-76	Q2458-01	FF016077.D	07/02/25
TP-68	Q2458-03	FF016079.D	07/02/25
TP-67	Q2458-04	FF016080.D	07/02/25
TP-67MS	Q2458-04MS	FF016081.D	07/02/25
TP-67MSD	Q2458-04MSD	FF016082.D	07/02/25
TP-55	Q2458-02	FF016091.D	07/03/25
TP-66	Q2458-05	FF016092.D	07/03/25
TP-60	Q2458-06	FF016093.D	07/03/25
TP-62	Q2458-07	FG016202.D	07/02/25
TP-63	Q2458-08	FG016203.D	07/02/25
TP-59	Q2458-09	FG016204.D	07/02/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BL	SDG No.:	Q2458
Lab Sample ID:	PB168697BL	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016065.D	1	07/02/25 09:09	07/02/25 13:33	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.8		29 - 130	84%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BL	SDG No.:	Q2458
Lab Sample ID:	PB168701BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016075.D	1	07/02/25 09:17	07/02/25 19:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		37 - 130	79%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016062.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016062.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016062.D	1		07/02/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016073.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016073.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016073.D	1		07/02/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.0		29 - 130	80%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016085.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016085.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016085.D	1		07/03/25	FF070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.5		29 - 130	88%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016088.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016088.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016088.D	1		07/03/25	FF070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	24.1		29 - 130	120%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016094.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016094.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016094.D	1		07/03/25	FF070325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.8		29 - 130	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:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-FF016116.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016116.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016116.D	1		07/09/25	FF070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	20.1		29 - 130	100%	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:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-FF016126.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016126.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016126.D	1		07/09/25	FF070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.2		29 - 130	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016199.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FG016199.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016199.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016207.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FG016207.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016207.D	1		07/02/25	FG070225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.9		29 - 130	84%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BS	SDG No.:	Q2458
Lab Sample ID:	PB168697BS	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016124.D	1	07/02/25 09:09	07/09/25 15:34	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	194		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.9		29 - 130	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BS	SDG No.:	Q2458
Lab Sample ID:	PB168701BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016076.D	1	07/02/25 09:17	07/02/25 19:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4980		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.1		37 - 130	76%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BSD	SDG No.:	Q2458
Lab Sample ID:	PB168697BSD	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016125.D	1	07/02/25 09:09	07/09/25 16:06	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	189		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.5		29 - 130	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016081.D	1	07/02/25 09:17	07/02/25 22:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10700		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.49		37 - 130	42%	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:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016082.D	1	07/02/25 09:17	07/02/25 22:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10900		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.76		37 - 130	39%	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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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2458

Calibration Sequence : FF061325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	128762116	128762	FF015964.D
500	64295722	128591	FF015965.D
200	27169561	135848	FF015966.D
100	13526499	135265	FF015967.D
50	7306219	146124	FF015968.D
AVG RF : 134918	**% RSD : 5.299**		**AVG RT : 15.0944**

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2458

Calibration Sequence : FG061325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	121978597	121979	FG016063.D
500	61365081	122730	FG016064.D
200	26234834	131174	FG016065.D
100	13396741	133967	FG016066.D
50	7145066	142901	FG016067.D
AVG RF : 130550	**% RSD : 6.625**		**AVG RT : 15.1972**

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016063.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70575628	141151	134918	4.62

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016074.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65207896	130416	134918	3.337

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016086.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	72212687	144425	134918	7.047

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016089.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74529678	149059	134918	10.481

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016095.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	76560914	153122	134918	13.493

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016117.D Analyst Name: YP\AJ Analyst Date: 07-09-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	69768852	139538	134918	3.424

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FF016127.D Analyst Name: YP\AJ Analyst Date: 07-09-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70910876	141822	134918	5.117

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FG016200.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64913586	129827	130550	0.554

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2458

DataFile: FG016208.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63999772	128000	130550	1.953

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

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2458

Project: South River WM Replacement **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.0944**

CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	02 Jul 2025 11:18	FF016062.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FF016063.D	15.096	
PB168697BL	PB168697BL	02 Jul 2025 13:33	FF016065.D	15.089	
FB-06272025	Q2458-10	02 Jul 2025 15:02	FF016068.D	15.092	
PIBLK02	I.BLK02	02 Jul 2025 17:36	FF016073.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 18:06	FF016074.D	15.094	
PB168701BL	PB168701BL	02 Jul 2025 19:06	FF016075.D	15.092	
PB168701BS	PB168701BS	02 Jul 2025 19:36	FF016076.D	15.091	
TP-76	Q2458-01	02 Jul 2025 20:06	FF016077.D	15.092	
TP-68	Q2458-03	02 Jul 2025 21:05	FF016079.D	15.097	
TP-67	Q2458-04	02 Jul 2025 21:35	FF016080.D	15.097	
TP-67MS	Q2458-04MS	02 Jul 2025 22:05	FF016081.D	15.096	
TP-67MSD	Q2458-04MSD	02 Jul 2025 22:35	FF016082.D	15.095	
PIBLK03	I.BLK03	03 Jul 2025 00:04	FF016085.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 00:34	FF016086.D	15.102	
PIBLK04	I.BLK04	03 Jul 2025 08:38	FF016088.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 09:08	FF016089.D	15.103	
TP-55	Q2458-02	03 Jul 2025 10:11	FF016091.D	15.099	
TP-66	Q2458-05	03 Jul 2025 10:47	FF016092.D	15.098	
TP-60	Q2458-06	03 Jul 2025 11:17	FF016093.D	15.099	
PIBLK05	I.BLK05	03 Jul 2025 11:47	FF016094.D	15.101	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 12:17	FF016095.D	15.105	
PIBLK06	I.BLK06	09 Jul 2025 09:32	FF016116.D	15.102	
50 PPM TRPH STD	50 PPM TRPH STD	09 Jul 2025 10:02	FF016117.D	15.107	
PB168697BS	PB168697BS	09 Jul 2025 15:34	FF016124.D	15.102	
PB168697BSD	PB168697BSD	09 Jul 2025 16:06	FF016125.D	15.101	
PIBLK07	I.BLK07	09 Jul 2025 16:36	FF016126.D	15.102	
50 PPM TRPH STD	50 PPM TRPH STD	09 Jul 2025 17:06	FF016127.D	15.104	
PIBLK08	I.BLK08	02 Jul 2025 11:18	FG016199.D	15.199	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FG016200.D	15.204	
TP-62	Q2458-07	02 Jul 2025 16:06	FG016202.D	15.199	
TP-63	Q2458-08	02 Jul 2025 16:36	FG016203.D	15.202	
TP-59	Q2458-09	02 Jul 2025 17:06	FG016204.D	15.203	
PIBLK09	I.BLK09	02 Jul 2025 18:36	FG016207.D	15.204	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 19:06	FG016208.D	15.207	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	15.0972	15.2972

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016078.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:35
Operator : YP\AJ
Sample : Q2458-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-55

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A B C D E F G

Integration File: autoint1.e
Quant Time: Jul 03 03:22:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.092	1271270	10.529 ug/ml
Target Compounds			

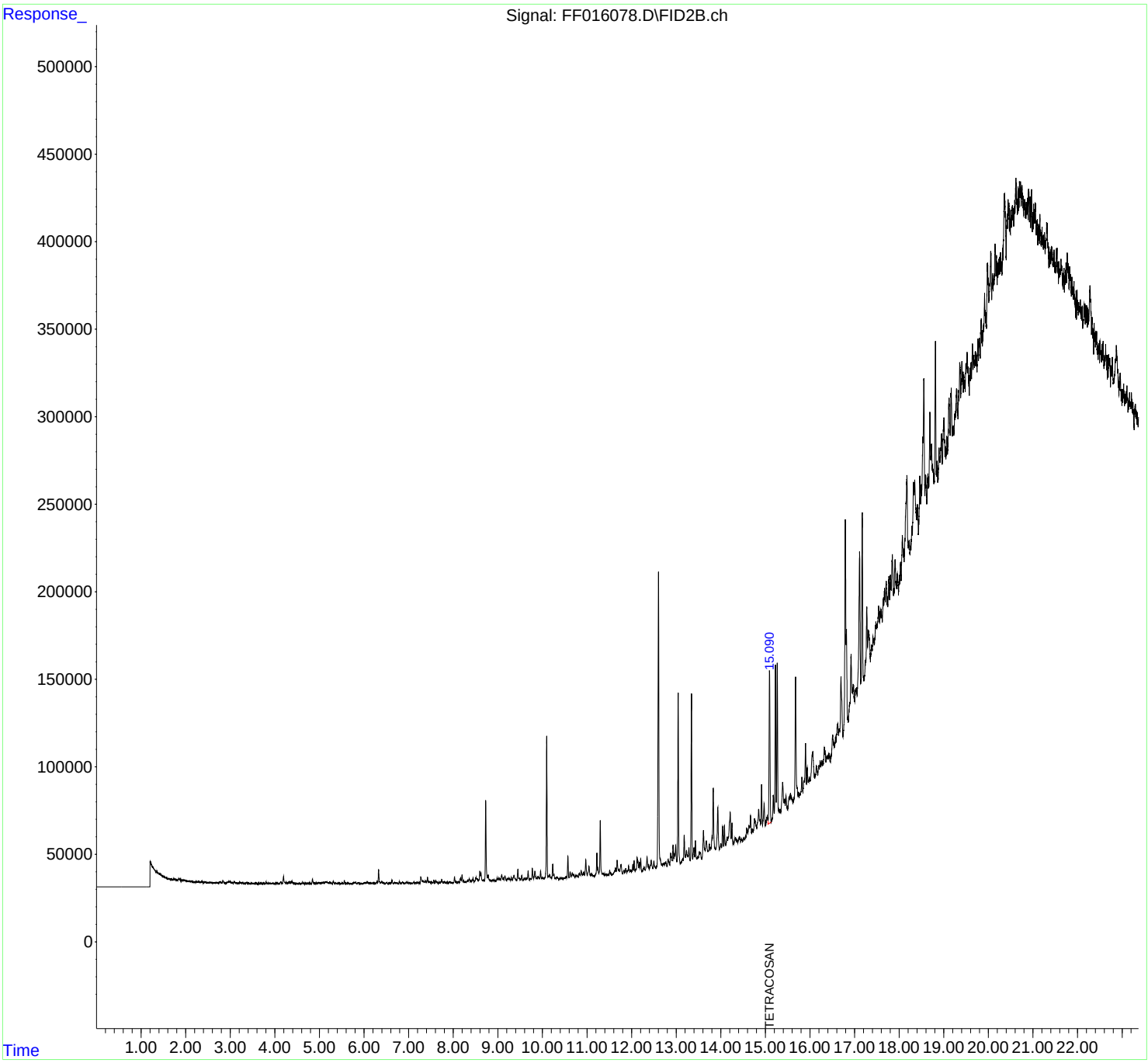
(f)=RT Delta > 1/2 Window (m)=manual int.

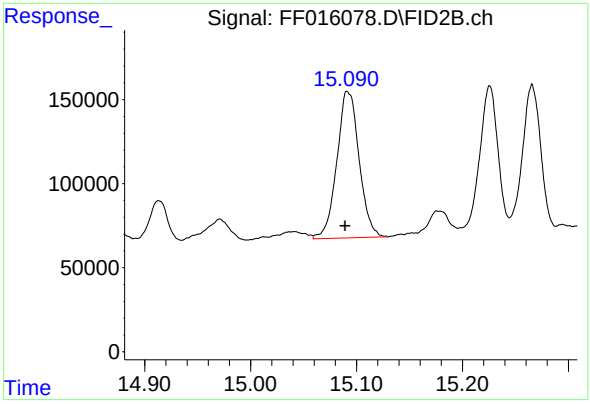
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016078.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:35
Operator : YP\AJ
Sample : Q2458-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-55

Integration File: autoint1.e
Quant Time: Jul 03 03:22:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.092 min
Delta R.T.:	0.002 min
Response:	1271270
Conc:	10.53 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-55

11

A B C D E F G

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016078.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:35
Sample : Q2458-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.513	4.505	4.522	HH	974	9332	0.14%	0.005%
2	4.528	4.522	4.544	HH	988	12029	0.18%	0.007%
3	4.547	4.544	4.558	HH	909	7508	0.11%	0.004%
4	4.565	4.558	4.590	HH	1058	17708	0.27%	0.010%
5	4.617	4.590	4.636	HH	1518	31619	0.48%	0.017%
6	4.652	4.636	4.670	HH	1238	20850	0.31%	0.011%
7	4.696	4.670	4.720	HH	1090	27798	0.42%	0.015%
8	4.738	4.720	4.760	HH	1054	21993	0.33%	0.012%
9	4.781	4.760	4.822	HH	1402	38259	0.58%	0.021%
10	4.844	4.822	4.890	HH	3527	71520	1.08%	0.039%
11	4.901	4.890	4.912	HH	1181	13887	0.21%	0.008%
12	4.926	4.912	4.957	HH	1187	28450	0.43%	0.015%
13	4.981	4.957	5.005	HH	1332	33677	0.51%	0.018%
14	5.018	5.005	5.040	HH	1209	23032	0.35%	0.012%
15	5.042	5.040	5.049	HH	1115	5955	0.09%	0.003%
16	5.089	5.049	5.105	HH	1462	43549	0.66%	0.024%
17	5.136	5.105	5.153	HH	1978	46347	0.70%	0.025%
18	5.169	5.153	5.215	HH	1787	53521	0.81%	0.029%
19	5.233	5.215	5.264	HH	1458	36618	0.55%	0.020%
20	5.268	5.264	5.289	HH	1193	15576	0.23%	0.008%
21	5.308	5.289	5.362	HH	2241	58763	0.88%	0.032%
22	5.370	5.362	5.386	HH	1090	14577	0.22%	0.008%
23	5.391	5.386	5.396	HH	911	5073	0.08%	0.003%
24	5.401	5.396	5.409	HH	993	7319	0.11%	0.004%
25	5.434	5.409	5.478	HH	1270	39954	0.60%	0.022%
26	5.499	5.478	5.539	HH	1183	33924	0.51%	0.018%
27	5.559	5.539	5.585	HH	2661	42528	0.64%	0.023%
28	5.597	5.585	5.616	HH	992	17652	0.27%	0.010%
29	5.634	5.616	5.653	HH	1261	23416	0.35%	0.013%
30	5.658	5.653	5.684	HH	959	15566	0.23%	0.008%
31	5.699	5.684	5.727	HH	1021	21504	0.32%	0.012%
32	5.731	5.727	5.736	HH	726	3557	0.05%	0.002%
33	5.758	5.736	5.771	HH	1470	23303	0.35%	0.013%
34	5.787	5.771	5.795	HH	1474	19493	0.29%	0.011%
35	5.810	5.795	5.838	HH	1804	33730	0.51%	0.018%
36	5.852	5.838	5.863	HH	1298	16198	0.24%	0.009%

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37	5.873	5.863	5.910	HH	1398	29189	0.44%	0.016%
38	5.913	5.910	5.921	HH	863	5692	0.09%	0.003%
39	5.949	5.921	5.969	HH	1131	27086	0.41%	0.015%
40	6.000	5.969	6.010	HH	1257	25399	0.38%	0.014%
41	6.026	6.010	6.043	HH	1667	25287	0.38%	0.014%
42	6.069	6.043	6.111	HH	2180	57921	0.87%	0.031%
43	6.124	6.111	6.156	HH	1421	31959	0.48%	0.017%
44	6.165	6.156	6.182	HH	1184	16774	0.25%	0.009%
45	6.202	6.182	6.210	HH	1137	18403	0.28%	0.010%
46	6.232	6.210	6.244	HH	1225	22341	0.34%	0.012%
47	6.261	6.244	6.270	HH	1219	16682	0.25%	0.009%
48	6.290	6.270	6.308	HH	2257	38011	0.57%	0.021%
49	6.327	6.308	6.384	HH	8884	142709	2.15%	0.077%
50	6.399	6.384	6.421	HH	2152	33978	0.51%	0.018%
51	6.433	6.421	6.460	HH	1396	25997	0.39%	0.014%
52	6.481	6.460	6.488	HH	1067	16048	0.24%	0.009%
53	6.506	6.488	6.542	HH	1491	36433	0.55%	0.020%
54	6.559	6.542	6.568	HH	1230	16560	0.25%	0.009%
55	6.581	6.568	6.597	HH	1283	20032	0.30%	0.011%
56	6.627	6.597	6.661	HH	3073	61798	0.93%	0.033%
57	6.679	6.661	6.705	HH	1682	35384	0.53%	0.019%
58	6.714	6.705	6.724	HH	1235	13691	0.21%	0.007%
59	6.728	6.724	6.758	HH	1238	20998	0.32%	0.011%
60	6.790	6.758	6.825	HH	2097	51640	0.78%	0.028%
61	6.837	6.825	6.847	HH	1208	15287	0.23%	0.008%
62	6.865	6.847	6.896	HH	1795	39344	0.59%	0.021%
63	6.897	6.896	6.906	HH	1043	5754	0.09%	0.003%
64	6.921	6.906	6.926	HH	1080	12065	0.18%	0.007%
65	6.943	6.926	6.963	HH	1775	30220	0.45%	0.016%
66	6.984	6.963	7.035	HH	1507	50753	0.76%	0.027%
67	7.051	7.035	7.060	HH	1146	16243	0.24%	0.009%
68	7.078	7.060	7.083	HH	1143	14484	0.22%	0.008%
69	7.109	7.083	7.147	HH	1733	52898	0.80%	0.029%
70	7.160	7.147	7.178	HH	1375	22160	0.33%	0.012%
71	7.197	7.178	7.216	HH	1627	31697	0.48%	0.017%
72	7.237	7.216	7.256	HH	1551	32648	0.49%	0.018%
73	7.273	7.256	7.312	HH	4688	100364	1.51%	0.054%
74	7.322	7.312	7.352	HH	2424	50044	0.75%	0.027%
75	7.372	7.352	7.393	HH	2155	45963	0.69%	0.025%
76	7.423	7.393	7.444	HH	4504	78472	1.18%	0.042%
77	7.455	7.444	7.480	HH	2225	38721	0.58%	0.021%
78	7.482	7.480	7.497	HH	1594	15075	0.23%	0.008%
79	7.515	7.497	7.545	HH	2090	46074	0.69%	0.025%
80	7.563	7.545	7.588	HH	2945	47380	0.71%	0.026%
81	7.607	7.588	7.625	HH	2661	42084	0.63%	0.023%
82	7.638	7.625	7.666	HH	1981	39671	0.60%	0.021%
83	7.688	7.666	7.705	HH	1793	35465	0.53%	0.019%
84	7.741	7.705	7.778	HH	3348	85993	1.29%	0.047%
85	7.799	7.778	7.844	HH	1706	59714	0.90%	0.032%
86	7.852	7.844	7.857	HH	1417	10885	0.16%	0.006%
87	7.870	7.857	7.884	HH	1599	23145	0.35%	0.013%
88	7.918	7.884	7.951	HH	1965	62923	0.95%	0.034%
89	7.977	7.951	7.995	HH	1503	35324	0.53%	0.019%

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90	8.029	7.995	8.047	HH	4758	78195	1.18%	0.042%
91	8.053	8.047	8.070	HH	1980	25094	0.38%	0.014%
92	8.083	8.070	8.100	HH	1718	28736	0.43%	0.016%
93	8.111	8.100	8.133	HH	1731	31327	0.47%	0.017%
94	8.165	8.133	8.181	HH	3613	77327	1.16%	0.042%
95	8.198	8.181	8.219	HH	5927	88536	1.33%	0.048%
96	8.224	8.219	8.255	HH	2462	43455	0.65%	0.024%
97	8.269	8.255	8.291	HH	1967	39923	0.60%	0.022%
98	8.321	8.291	8.337	HH	2699	61426	0.92%	0.033%
99	8.357	8.337	8.387	HH	3316	83432	1.26%	0.045%
100	8.394	8.387	8.408	HH	2395	27365	0.41%	0.015%
101	8.443	8.408	8.479	HH	4123	117782	1.77%	0.064%
102	8.513	8.479	8.530	HH	4353	102842	1.55%	0.056%
103	8.544	8.530	8.559	HH	3648	56256	0.85%	0.030%
104	8.572	8.559	8.580	HH	3108	35560	0.54%	0.019%
105	8.597	8.580	8.610	HH	7901	104675	1.58%	0.057%
106	8.622	8.610	8.656	HH	6995	124570	1.88%	0.067%
107	8.672	8.656	8.690	HH	2789	53643	0.81%	0.029%
108	8.729	8.690	8.769	HH	48109	658350	9.91%	0.356%
109	8.785	8.769	8.814	HH	5911	115002	1.73%	0.062%
110	8.817	8.814	8.833	HH	2917	31730	0.48%	0.017%
111	8.843	8.833	8.863	HH	2718	45035	0.68%	0.024%
112	8.889	8.863	8.905	HH	3015	68119	1.03%	0.037%
113	8.915	8.905	8.939	HH	2788	53011	0.80%	0.029%
114	8.984	8.939	9.006	HH	4162	124586	1.88%	0.067%
115	9.025	9.006	9.050	HH	4014	91617	1.38%	0.050%
116	9.056	9.050	9.060	HH	3233	20736	0.31%	0.011%
117	9.088	9.060	9.109	HH	5976	130077	1.96%	0.070%
118	9.122	9.109	9.134	HH	3898	54720	0.82%	0.030%
119	9.161	9.134	9.201	HH	5368	157271	2.37%	0.085%
120	9.221	9.201	9.235	HH	3946	68631	1.03%	0.037%
121	9.247	9.235	9.261	HH	3917	58139	0.88%	0.031%
122	9.271	9.261	9.286	HH	3626	50790	0.76%	0.027%
123	9.302	9.286	9.328	HH	4048	85881	1.29%	0.046%
124	9.363	9.328	9.413	HH	5677	206168	3.10%	0.112%
125	9.450	9.413	9.470	HH	9181	175009	2.63%	0.095%
126	9.479	9.470	9.515	HH	4062	95284	1.43%	0.052%
127	9.536	9.515	9.565	HH	5560	115381	1.74%	0.062%
128	9.593	9.565	9.612	HH	4083	96164	1.45%	0.052%
129	9.629	9.612	9.644	HH	4335	70616	1.06%	0.038%
130	9.680	9.644	9.717	HH	8166	197583	2.97%	0.107%
131	9.734	9.717	9.748	HH	3955	65336	0.98%	0.035%
132	9.774	9.748	9.799	HH	9528	175903	2.65%	0.095%
133	9.832	9.799	9.859	HH	7938	199759	3.01%	0.108%
134	9.863	9.859	9.881	HH	4084	50863	0.77%	0.028%
135	9.900	9.881	9.937	HH	5019	143669	2.16%	0.078%
136	9.958	9.937	9.981	HH	8112	144453	2.17%	0.078%
137	10.007	9.981	10.040	HH	4265	139375	2.10%	0.075%
138	10.096	10.040	10.120	HH	85123	1041926	15.69%	0.564%
139	10.129	10.120	10.141	HH	5192	64951	0.98%	0.035%
140	10.146	10.141	10.150	HH	5059	27808	0.42%	0.015%
141	10.163	10.150	10.183	HH	6016	104377	1.57%	0.056%

rteres

142	10.192	10.183	10.208	HH	4385	61760	0.93%	0.033%
143	10.232	10.208	10.250	HH	12073	194830	2.93%	0.105%
144	10.258	10.250	10.287	HH	6308	110831	1.67%	0.060%
145	10.312	10.287	10.320	HH	4264	78952	1.19%	0.043%
146	10.336	10.320	10.363	HH	4649	104871	1.58%	0.057%
147	10.378	10.363	10.384	HH	3581	44769	0.67%	0.024%
148	10.401	10.384	10.425	HH	4130	92001	1.39%	0.050%
149	10.441	10.425	10.458	HH	4185	77589	1.17%	0.042%
150	10.481	10.458	10.492	HH	3938	79146	1.19%	0.043%
151	10.509	10.492	10.516	HH	4307	58558	0.88%	0.032%
152	10.529	10.516	10.547	HH	4948	84935	1.28%	0.046%
153	10.571	10.547	10.597	HH	16545	263958	3.97%	0.143%
154	10.621	10.597	10.642	HH	7592	158380	2.38%	0.086%
155	10.672	10.642	10.689	HH	6888	163871	2.47%	0.089%
156	10.703	10.689	10.728	HH	6202	127336	1.92%	0.069%
157	10.742	10.728	10.753	HH	5430	76747	1.16%	0.042%
158	10.765	10.753	10.800	HH	5568	146090	2.20%	0.079%
159	10.828	10.800	10.846	HH	6612	162396	2.44%	0.088%
160	10.867	10.846	10.889	HH	8326	177151	2.67%	0.096%
161	10.900	10.889	10.910	HH	6262	76848	1.16%	0.042%
162	10.925	10.910	10.939	HH	7256	115264	1.74%	0.062%
163	10.972	10.939	11.005	HH	14608	338657	5.10%	0.183%
164	11.044	11.005	11.070	HH	10784	302079	4.55%	0.163%
165	11.098	11.070	11.136	HH	6342	230509	3.47%	0.125%
166	11.145	11.136	11.152	HH	5295	49289	0.74%	0.027%
167	11.166	11.152	11.174	HH	5332	67554	1.02%	0.037%
168	11.221	11.174	11.237	HH	18423	356111	5.36%	0.193%
169	11.244	11.237	11.262	HH	9747	127161	1.91%	0.069%
170	11.297	11.262	11.337	HH	36988	636862	9.59%	0.344%
171	11.363	11.337	11.381	HH	6698	168573	2.54%	0.091%
172	11.392	11.381	11.416	HH	6290	126575	1.91%	0.068%
173	11.423	11.416	11.438	HH	6115	80679	1.21%	0.044%
174	11.445	11.438	11.460	HH	5960	77830	1.17%	0.042%
175	11.465	11.460	11.471	HH	5903	37545	0.57%	0.020%
176	11.481	11.471	11.493	HH	6278	78877	1.19%	0.043%
177	11.508	11.493	11.524	HH	8573	136296	2.05%	0.074%
178	11.534	11.524	11.559	HH	6910	132474	1.99%	0.072%
179	11.611	11.559	11.615	HH	7635	217172	3.27%	0.117%
180	11.638	11.615	11.656	HH	9692	213804	3.22%	0.116%
181	11.675	11.656	11.703	HH	14248	303998	4.58%	0.164%
182	11.713	11.703	11.730	HH	8961	137369	2.07%	0.074%
183	11.763	11.730	11.800	HH	11611	377650	5.69%	0.204%
184	11.826	11.800	11.845	HH	8279	201770	3.04%	0.109%
185	11.870	11.845	11.890	HH	9444	224016	3.37%	0.121%
186	11.932	11.890	11.960	HH	10588	361552	5.44%	0.196%
187	11.972	11.960	12.001	HH	8574	200775	3.02%	0.109%
188	12.027	12.001	12.041	HH	11831	232081	3.49%	0.126%
189	12.056	12.041	12.076	HH	14036	229856	3.46%	0.124%
190	12.090	12.076	12.102	HH	9176	137792	2.07%	0.075%
191	12.123	12.102	12.134	HH	15841	248191	3.74%	0.134%
192	12.142	12.134	12.158	HH	13875	170176	2.56%	0.092%
193	12.174	12.158	12.187	HH	13242	203064	3.06%	0.110%
194	12.204	12.187	12.236	HH	15103	319181	4.81%	0.173%

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195	12.244	12.236	12.253	HH	8405	82537	1.24%	0.045%
196	12.281	12.253	12.303	HH	9879	274327	4.13%	0.148%
197	12.347	12.303	12.368	HH	16126	456988	6.88%	0.247%
198	12.378	12.368	12.400	HH	11486	203387	3.06%	0.110%
199	12.418	12.400	12.423	HH	11405	144053	2.17%	0.078%
200	12.438	12.423	12.479	HH	14188	391438	5.89%	0.212%
201	12.499	12.479	12.522	HH	13757	298809	4.50%	0.162%
202	12.526	12.522	12.541	HH	10575	114363	1.72%	0.062%
203	12.603	12.541	12.671	HH	179103	3099107	46.66%	1.676%
204	12.677	12.671	12.690	HH	12099	132420	1.99%	0.072%
205	12.726	12.690	12.741	HH	12722	368783	5.55%	0.199%
206	12.761	12.741	12.795	HH	12828	392871	5.91%	0.213%
207	12.818	12.795	12.830	HH	14862	270328	4.07%	0.146%
208	12.837	12.830	12.855	HH	13518	189678	2.86%	0.103%
209	12.877	12.855	12.910	HH	18293	503887	7.59%	0.273%
210	12.929	12.910	12.946	HH	22875	406238	6.12%	0.220%
211	12.963	12.946	12.971	HH	17410	247237	3.72%	0.134%
212	12.989	12.971	13.011	HH	22957	443855	6.68%	0.240%
213	13.045	13.011	13.092	HH	109616	1734551	26.11%	0.938%
214	13.145	13.092	13.157	HH	14945	534028	8.04%	0.289%
215	13.180	13.157	13.211	HH	28668	637919	9.60%	0.345%
216	13.230	13.211	13.254	HH	19881	457837	6.89%	0.248%
217	13.261	13.254	13.269	HH	16751	147721	2.22%	0.080%
218	13.286	13.269	13.314	HH	21319	468940	7.06%	0.254%
219	13.343	13.314	13.369	HH	109448	1536520	23.13%	0.831%
220	13.398	13.369	13.415	HH	21431	512580	7.72%	0.277%
221	13.431	13.415	13.462	HH	25382	533251	8.03%	0.288%
222	13.479	13.462	13.495	HH	16295	315370	4.75%	0.171%
223	13.518	13.495	13.530	HH	19116	360378	5.43%	0.195%
224	13.538	13.530	13.567	HH	18758	388201	5.84%	0.210%
225	13.611	13.567	13.652	HH	31280	1102853	16.60%	0.597%
226	13.677	13.652	13.710	HH	25359	775416	11.67%	0.419%
227	13.717	13.710	13.723	HH	19742	142606	2.15%	0.077%
228	13.742	13.723	13.760	HH	23509	472537	7.11%	0.256%
229	13.774	13.760	13.782	HH	21710	285515	4.30%	0.154%
230	13.804	13.782	13.812	HH	28275	453568	6.83%	0.245%
231	13.830	13.812	13.890	HH	55399	1413371	21.28%	0.765%
232	13.932	13.890	13.967	HH	44427	1319974	19.87%	0.714%
233	14.001	13.967	14.016	HH	23807	653671	9.84%	0.354%
234	14.039	14.016	14.061	HH	33597	732534	11.03%	0.396%
235	14.081	14.061	14.106	HH	34012	723614	10.89%	0.391%
236	14.140	14.106	14.153	HH	27210	708789	10.67%	0.383%
237	14.170	14.153	14.174	HH	27405	324703	4.89%	0.176%
238	14.210	14.174	14.231	HH	41729	1177946	17.73%	0.637%
239	14.251	14.231	14.276	HH	35574	775524	11.68%	0.420%
240	14.283	14.276	14.296	HH	24686	292336	4.40%	0.158%
241	14.331	14.296	14.352	HH	27283	855308	12.88%	0.463%
242	14.357	14.352	14.377	HH	26040	385503	5.80%	0.209%
243	14.420	14.377	14.445	HH	27247	1051256	15.83%	0.569%
244	14.465	14.445	14.485	HH	26603	631049	9.50%	0.341%
245	14.520	14.485	14.534	HH	27400	766591	11.54%	0.415%
246	14.554	14.534	14.563	HH	27991	465584	7.01%	0.252%

rteres

247	14.581	14.563	14.597	HH	32634	623148	9.38%	0.337%
248	14.628	14.597	14.632	HH	33858	660523	9.94%	0.357%
249	14.636	14.632	14.648	HH	33993	318115	4.79%	0.172%
250	14.666	14.648	14.691	HH	39856	898150	13.52%	0.486%
251	14.704	14.691	14.722	HH	32283	565381	8.51%	0.306%
252	14.756	14.722	14.805	HH	38133	1707377	25.71%	0.924%
253	14.851	14.805	14.866	HH	43225	1396522	21.03%	0.755%
254	14.875	14.866	14.890	HH	37426	531211	8.00%	0.287%
255	14.913	14.890	14.935	HH	57447	1179003	17.75%	0.638%
256	14.971	14.935	14.996	HH	46612	1441383	21.70%	0.780%
257	15.013	14.996	15.017	HH	35954	430170	6.48%	0.233%
258	15.041	15.017	15.059	HH	39142	964461	14.52%	0.522%
259	15.091	15.059	15.130	HH	122460	2779912	41.85%	1.504%
260	15.177	15.130	15.196	HH	51092	1665432	25.07%	0.901%
261	15.226	15.196	15.245	HH	125680	2175459	32.75%	1.177%
262	15.266	15.245	15.289	HH	126723	2090144	31.47%	1.131%
263	15.294	15.289	15.305	HH	43481	427546	6.44%	0.231%
264	15.312	15.305	15.317	HH	42740	290464	4.37%	0.157%
265	15.322	15.317	15.328	HH	43478	284958	4.29%	0.154%
266	15.333	15.328	15.342	HH	42705	359728	5.42%	0.195%
267	15.386	15.342	15.419	HH	58795	2294900	34.55%	1.241%
268	15.432	15.419	15.444	HH	49015	732991	11.04%	0.396%
269	15.461	15.444	15.493	HH	51188	1369118	20.61%	0.741%
270	15.533	15.493	15.546	HH	50541	1513107	22.78%	0.818%
271	15.563	15.546	15.597	HH	52614	1538856	23.17%	0.832%
272	15.604	15.597	15.614	HH	49314	479962	7.23%	0.260%
273	15.641	15.614	15.646	HH	49934	946739	14.25%	0.512%
274	15.676	15.646	15.732	HH	118757	3593126	54.10%	1.944%
275	15.744	15.732	15.756	HH	53116	761976	11.47%	0.412%
276	15.774	15.756	15.780	HH	52303	737827	11.11%	0.399%
277	15.818	15.780	15.841	HH	61659	2033036	30.61%	1.100%
278	15.862	15.841	15.868	HH	59057	913391	13.75%	0.494%
279	15.875	15.868	15.880	HH	60332	417903	6.29%	0.226%
280	15.901	15.880	15.921	HH	80933	1712765	25.79%	0.926%
281	15.939	15.921	15.959	HH	67128	1409710	21.22%	0.763%
282	15.966	15.959	15.971	HH	59904	431896	6.50%	0.234%
283	15.982	15.971	15.995	HH	61986	890378	13.41%	0.482%
284	16.049	15.995	16.056	HH	74732	2412331	36.32%	1.305%
285	16.064	16.056	16.104	HH	76515	1962049	29.54%	1.061%
286	16.110	16.104	16.123	HH	63151	720775	10.85%	0.390%
287	16.141	16.123	16.177	HH	68104	2095043	31.54%	1.133%
288	16.200	16.177	16.210	HH	68350	1305472	19.65%	0.706%
289	16.226	16.210	16.243	HH	71092	1375724	20.71%	0.744%
290	16.261	16.243	16.266	HH	71293	972685	14.64%	0.526%
291	16.270	16.266	16.289	HH	71035	940450	14.16%	0.509%
292	16.294	16.289	16.301	HH	70645	523437	7.88%	0.283%
293	16.326	16.301	16.358	HH	78500	2554569	38.46%	1.382%
294	16.382	16.358	16.395	HH	73611	1609046	24.22%	0.870%
295	16.401	16.395	16.406	HH	73394	474649	7.15%	0.257%
296	16.413	16.406	16.420	HH	74622	600086	9.03%	0.325%
297	16.432	16.420	16.449	HH	75382	1266620	19.07%	0.685%
298	16.453	16.449	16.458	HH	71811	407597	6.14%	0.220%
299	16.511	16.458	16.536	HH	85933	3674459	55.32%	1.988%

rteres

300	16.541	16.536	16.555	HH	80921	937408	14.11%	0.507%
301	16.571	16.555	16.585	HH	84536	1482160	22.31%	0.802%
302	16.610	16.585	16.617	HH	91993	1637226	24.65%	0.886%
303	16.623	16.617	16.644	HH	92358	1443338	21.73%	0.781%
304	16.655	16.644	16.665	HH	89450	1145459	17.25%	0.620%
305	16.695	16.665	16.738	HH	119145	4378798	65.92%	2.369%
306	16.793	16.738	16.810	HH	208847	5547611	83.52%	3.001%
307	16.818	16.810	16.857	HH	145900	3237889	48.75%	1.751%
308	16.922	16.857	16.946	HH	131994	5860579	88.23%	3.170%
309	16.960	16.946	16.963	HH	112183	1128131	16.98%	0.610%
310	16.970	16.963	17.002	HH	114887	2550046	38.39%	1.379%
311	17.008	17.002	17.013	HH	111432	740083	11.14%	0.400%
312	17.028	17.013	17.034	HH	112286	1386701	20.88%	0.750%
313	17.043	17.034	17.060	HH	113108	1680644	25.30%	0.909%
314	17.113	17.060	17.138	HH	190352	6642132	100.00%	3.593%
315	17.172	17.138	17.200	HH	212248	5544959	83.48%	2.999%
316	17.203	17.200	17.210	HH	119619	706861	10.64%	0.382%
317	17.245	17.210	17.255	HH	128481	3258957	49.06%	1.763%
318	17.272	17.255	17.292	HH	159041	3260429	49.09%	1.764%
319	17.308	17.292	17.354	HH	145349	5208109	78.41%	2.817%
320	17.378	17.354	17.387	HH	137074	2626923	39.55%	1.421%
321	17.390	17.387	17.397	HH	136122	810132	12.20%	0.438%
322	17.411	17.397	17.420	HH	141853	1912112	28.79%	1.034%
323	17.425	17.420	17.446	HH	140781	2146456	32.32%	1.161%
324	17.477	17.446	17.500	HHA	150538	4816293	72.51%	2.605%

Sum of corrected areas: 184865952

FF061325.M Thu Jul 03 06:39:20 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016083.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:05
Operator : YP\AJ
Sample : Q2458-05
Misc :
ALS Vial : 87 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-66

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A B C D E F G

Integration File: autoint1.e
Quant Time: Jul 03 03:24:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.098	1373726	11.377 ug/ml
Target Compounds			

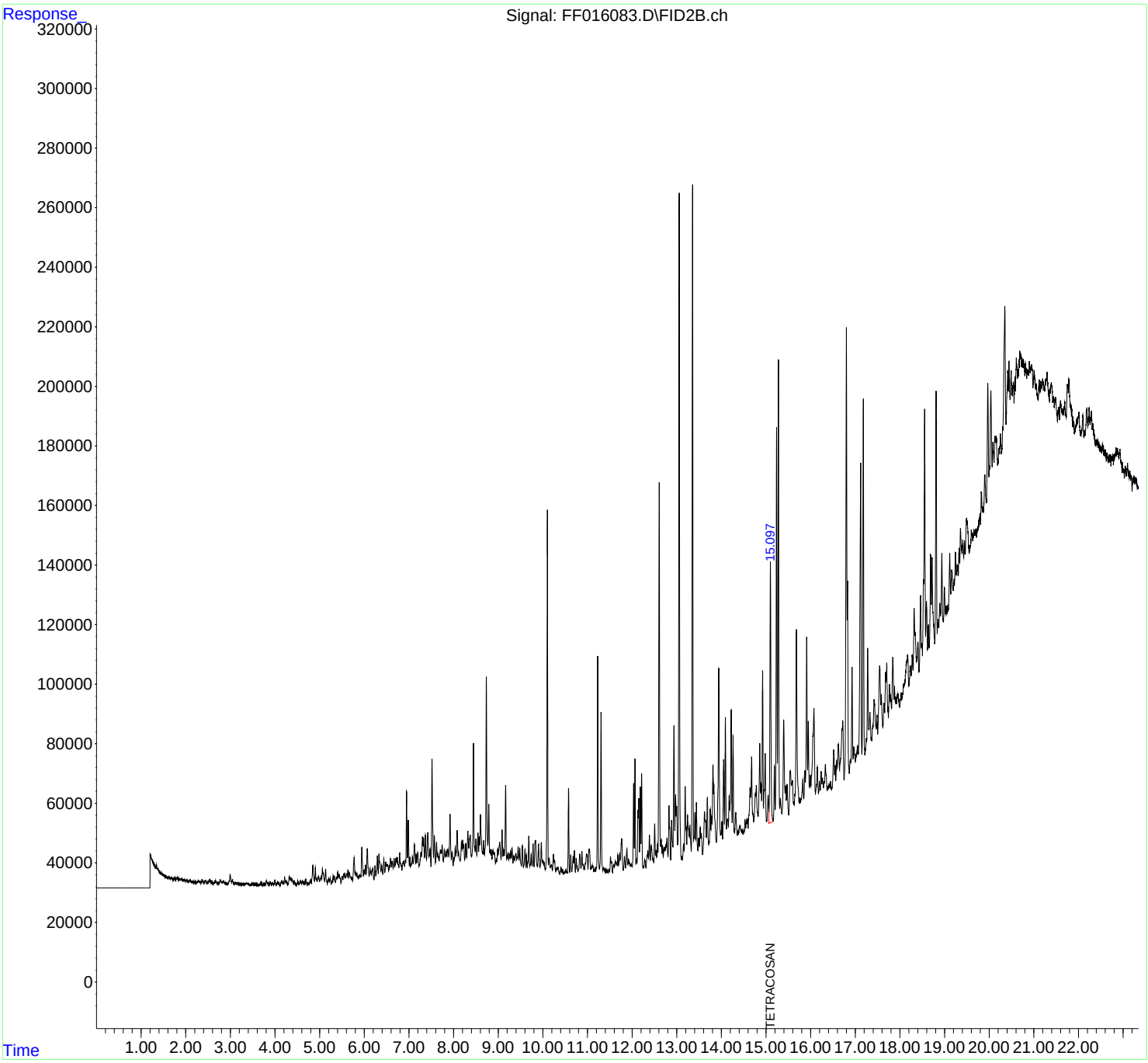
(f)=RT Delta > 1/2 Window (m)=manual int.

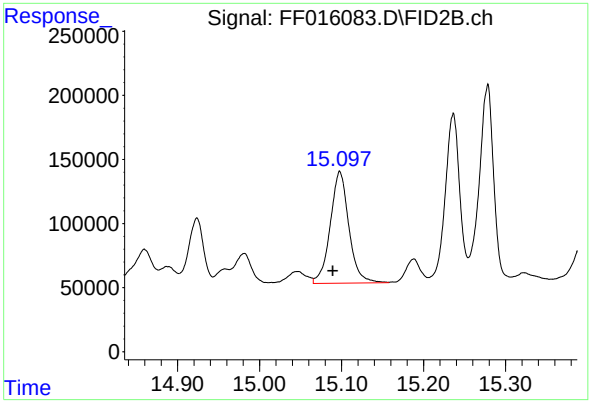
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016083.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:05
Operator : YP\AJ
Sample : Q2458-05
Misc :
ALS Vial : 87 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-66

Integration File: autoint1.e
Quant Time: Jul 03 03:24:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.098 min
Delta R.T.: 0.009 min
Response: 1373726
Conc: 11.38 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-66

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A B C D E F G

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016083.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:05
Sample : Q2458-05
Misc :
ALS Vial : 87 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.512	4.470	4.532	HH	1444	28251	0.72%	0.019%
2	4.569	4.532	4.588	HH	1402	34861	0.89%	0.023%
3	4.618	4.588	4.641	HH	1537	33623	0.86%	0.022%
4	4.654	4.641	4.670	HH	1269	16297	0.42%	0.011%
5	4.691	4.670	4.720	HH	1783	31305	0.80%	0.021%
6	4.749	4.720	4.760	HH	773	14582	0.37%	0.010%
7	4.797	4.760	4.815	HH	1671	39372	1.00%	0.026%
8	4.847	4.815	4.886	HH	6880	149320	3.81%	0.098%
9	4.903	4.886	4.921	HH	6150	76736	1.96%	0.050%
10	4.927	4.921	4.942	HH	2583	27047	0.69%	0.018%
11	4.961	4.942	4.970	HH	2703	37164	0.95%	0.024%
12	4.979	4.970	5.002	HH	2937	42487	1.08%	0.028%
13	5.033	5.002	5.046	HH	2945	61409	1.57%	0.040%
14	5.062	5.046	5.076	HH	5672	76564	1.95%	0.050%
15	5.080	5.076	5.111	HH	4033	60446	1.54%	0.040%
16	5.133	5.111	5.174	HH	5605	99706	2.54%	0.066%
17	5.201	5.174	5.219	HH	2171	46616	1.19%	0.031%
18	5.236	5.219	5.261	HH	2641	43716	1.12%	0.029%
19	5.302	5.261	5.317	HH	3355	64561	1.65%	0.042%
20	5.330	5.317	5.353	HH	3299	48514	1.24%	0.032%
21	5.375	5.353	5.388	HH	2979	45037	1.15%	0.030%
22	5.404	5.388	5.418	HH	4659	61892	1.58%	0.041%
23	5.439	5.418	5.480	HH	3390	95548	2.44%	0.063%
24	5.504	5.480	5.520	HH	3236	56070	1.43%	0.037%
25	5.540	5.520	5.552	HH	3943	59641	1.52%	0.039%
26	5.562	5.552	5.579	HH	4048	54707	1.40%	0.036%
27	5.604	5.579	5.618	HH	4013	77574	1.98%	0.051%
28	5.634	5.618	5.651	HH	5361	80904	2.06%	0.053%
29	5.666	5.651	5.694	HH	4201	87633	2.24%	0.058%
30	5.699	5.694	5.715	HH	2822	32726	0.84%	0.022%
31	5.729	5.715	5.742	HH	2589	35598	0.91%	0.023%
32	5.773	5.742	5.797	HH	9528	194551	4.97%	0.128%
33	5.808	5.797	5.822	HH	4469	57879	1.48%	0.038%
34	5.835	5.822	5.870	HH	4224	92556	2.36%	0.061%
35	5.888	5.870	5.903	HH	3600	60821	1.55%	0.040%
36	5.912	5.903	5.922	HH	3419	36434	0.93%	0.024%

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37	5.945	5.922	5.980	HH	12957	249465	6.37%	0.164%
38	5.995	5.980	6.011	HH	5216	83188	2.12%	0.055%
39	6.028	6.011	6.042	HH	6940	100223	2.56%	0.066%
40	6.067	6.042	6.110	HH	12410	291754	7.45%	0.192%
41	6.129	6.110	6.142	HH	5703	90081	2.30%	0.059%
42	6.147	6.142	6.161	HH	4692	48385	1.23%	0.032%
43	6.193	6.161	6.218	HH	5974	149553	3.82%	0.098%
44	6.241	6.218	6.260	HH	6716	111816	2.85%	0.074%
45	6.293	6.260	6.312	HH	9961	192596	4.92%	0.127%
46	6.330	6.312	6.373	HH	10708	265592	6.78%	0.175%
47	6.391	6.373	6.411	HH	6945	126778	3.24%	0.083%
48	6.437	6.411	6.461	HH	9247	183158	4.67%	0.120%
49	6.481	6.461	6.492	HH	8019	122312	3.12%	0.080%
50	6.501	6.492	6.510	HH	7121	75432	1.93%	0.050%
51	6.520	6.510	6.546	HH	6984	136237	3.48%	0.090%
52	6.562	6.546	6.570	HH	6673	86554	2.21%	0.057%
53	6.588	6.570	6.606	HH	9155	166371	4.25%	0.109%
54	6.620	6.606	6.647	HH	8184	174120	4.44%	0.115%
55	6.667	6.647	6.684	HH	9215	166270	4.24%	0.109%
56	6.713	6.684	6.728	HH	9103	211584	5.40%	0.139%
57	6.739	6.728	6.775	HH	9495	221650	5.66%	0.146%
58	6.792	6.775	6.806	HH	11141	160692	4.10%	0.106%
59	6.810	6.806	6.824	HH	7687	79219	2.02%	0.052%
60	6.829	6.824	6.844	HH	6920	72158	1.84%	0.047%
61	6.868	6.844	6.874	HH	7595	122237	3.12%	0.080%
62	6.883	6.874	6.898	HH	8149	109215	2.79%	0.072%
63	6.921	6.898	6.929	HH	8556	141565	3.61%	0.093%
64	6.947	6.929	6.968	HH	31659	420631	10.74%	0.277%
65	6.985	6.968	7.008	HH	22041	334797	8.54%	0.220%
66	7.020	7.008	7.035	HH	9638	126350	3.22%	0.083%
67	7.077	7.035	7.094	HH	9704	276304	7.05%	0.182%
68	7.123	7.094	7.148	HH	13897	342024	8.73%	0.225%
69	7.161	7.148	7.175	HH	10406	146676	3.74%	0.096%
70	7.197	7.175	7.223	HH	11132	262397	6.70%	0.173%
71	7.266	7.223	7.279	HH	11248	291879	7.45%	0.192%
72	7.303	7.279	7.318	HH	16457	312228	7.97%	0.205%
73	7.328	7.318	7.349	HH	15860	248634	6.35%	0.164%
74	7.369	7.349	7.395	HH	16998	333867	8.52%	0.220%
75	7.424	7.395	7.450	HH	17787	439385	11.21%	0.289%
76	7.473	7.450	7.495	HH	12381	268720	6.86%	0.177%
77	7.517	7.495	7.552	HH	42512	735709	18.78%	0.484%
78	7.569	7.552	7.595	HH	16938	311523	7.95%	0.205%
79	7.619	7.595	7.634	HH	14613	262879	6.71%	0.173%
80	7.645	7.634	7.658	HH	10782	144360	3.68%	0.095%
81	7.663	7.658	7.678	HH	9819	109668	2.80%	0.072%
82	7.705	7.678	7.730	HH	12013	342010	8.73%	0.225%
83	7.743	7.730	7.772	HH	13759	272983	6.97%	0.180%
84	7.794	7.772	7.821	HH	12067	306092	7.81%	0.201%
85	7.834	7.821	7.851	HH	11614	192944	4.92%	0.127%
86	7.871	7.851	7.894	HH	11992	281788	7.19%	0.185%
87	7.922	7.894	7.950	HH	24001	502560	12.83%	0.331%
88	7.966	7.950	7.990	HH	11389	234968	6.00%	0.155%
89	8.008	7.990	8.017	HH	9431	135817	3.47%	0.089%

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90	8.037	8.017	8.051	HH	13013	225307	5.75%	0.148%
91	8.080	8.051	8.102	HH	18583	411496	10.50%	0.271%
92	8.112	8.102	8.148	HH	11129	266155	6.79%	0.175%
93	8.178	8.148	8.192	HH	14731	306141	7.81%	0.201%
94	8.205	8.192	8.220	HH	15358	229122	5.85%	0.151%
95	8.229	8.220	8.249	HH	13945	206137	5.26%	0.136%
96	8.273	8.249	8.292	HH	14266	290261	7.41%	0.191%
97	8.320	8.292	8.343	HH	18313	429885	10.97%	0.283%
98	8.374	8.343	8.400	HH	16931	477585	12.19%	0.314%
99	8.446	8.400	8.483	HH	47679	952780	24.32%	0.627%
100	8.501	8.483	8.521	HH	15720	296799	7.57%	0.195%
101	8.548	8.521	8.563	HH	17707	348288	8.89%	0.229%
102	8.576	8.563	8.587	HH	16475	211755	5.40%	0.139%
103	8.603	8.587	8.655	HH	23966	640393	16.34%	0.421%
104	8.673	8.655	8.690	HH	15202	270729	6.91%	0.178%
105	8.735	8.690	8.770	HH	70103	1248095	31.85%	0.821%
106	8.789	8.770	8.812	HH	27330	468706	11.96%	0.308%
107	8.822	8.812	8.835	HH	11970	153145	3.91%	0.101%
108	8.845	8.835	8.864	HH	12125	188246	4.80%	0.124%
109	8.878	8.864	8.888	HH	11733	158719	4.05%	0.104%
110	8.897	8.888	8.908	HH	11180	126826	3.24%	0.083%
111	8.913	8.908	8.940	HH	11111	186112	4.75%	0.122%
112	8.956	8.940	8.966	HH	8658	130588	3.33%	0.086%
113	8.987	8.966	9.000	HH	12378	212225	5.42%	0.140%
114	9.033	9.000	9.065	HH	14731	467644	11.94%	0.308%
115	9.088	9.065	9.108	HH	18765	354486	9.05%	0.233%
116	9.123	9.108	9.140	HH	12073	208184	5.31%	0.137%
117	9.167	9.140	9.189	HH	33755	561396	14.33%	0.369%
118	9.197	9.189	9.205	HH	9600	89945	2.30%	0.059%
119	9.220	9.205	9.234	HH	11106	169735	4.33%	0.112%
120	9.250	9.234	9.263	HH	10836	171614	4.38%	0.113%
121	9.278	9.263	9.295	HH	11656	200211	5.11%	0.132%
122	9.311	9.295	9.330	HH	12522	221513	5.65%	0.146%
123	9.351	9.330	9.370	HH	9939	209092	5.34%	0.138%
124	9.399	9.370	9.412	HH	10804	247678	6.32%	0.163%
125	9.422	9.412	9.431	HH	9758	106836	2.73%	0.070%
126	9.447	9.431	9.467	HH	13106	231669	5.91%	0.152%
127	9.485	9.467	9.521	HH	12673	299029	7.63%	0.197%
128	9.542	9.521	9.567	HH	13436	260664	6.65%	0.171%
129	9.601	9.567	9.620	HH	12171	281122	7.17%	0.185%
130	9.633	9.620	9.650	HH	10347	145746	3.72%	0.096%
131	9.686	9.650	9.707	HH	16652	335391	8.56%	0.221%
132	9.739	9.707	9.762	HH	10372	258504	6.60%	0.170%
133	9.781	9.762	9.805	HH	13983	241054	6.15%	0.159%
134	9.837	9.805	9.880	HH	15059	476934	12.17%	0.314%
135	9.903	9.880	9.934	HH	13921	310269	7.92%	0.204%
136	9.966	9.934	9.986	HH	14549	294234	7.51%	0.194%
137	9.995	9.986	10.022	HH	8521	172529	4.40%	0.114%
138	10.030	10.022	10.056	HH	7653	132911	3.39%	0.087%
139	10.102	10.056	10.124	HH	126075	1515350	38.68%	0.997%
140	10.140	10.124	10.170	HH	9166	214428	5.47%	0.141%
141	10.196	10.170	10.216	HH	7052	177350	4.53%	0.117%

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142	10.237	10.216	10.254	HH	10510	192274	4.91%	0.126%
143	10.263	10.254	10.291	HH	8628	148264	3.78%	0.098%
144	10.314	10.291	10.325	HH	5839	115263	2.94%	0.076%
145	10.340	10.325	10.379	HH	6231	164939	4.21%	0.109%
146	10.405	10.379	10.433	HH	6010	162447	4.15%	0.107%
147	10.445	10.433	10.462	HH	5430	82680	2.11%	0.054%
148	10.486	10.462	10.498	HH	4603	91658	2.34%	0.060%
149	10.516	10.498	10.533	HH	5379	100135	2.56%	0.066%
150	10.536	10.533	10.551	HH	4594	48197	1.23%	0.032%
151	10.576	10.551	10.602	HH	32438	445362	11.37%	0.293%
152	10.624	10.602	10.649	HH	10443	202553	5.17%	0.133%
153	10.678	10.649	10.691	HH	9744	189990	4.85%	0.125%
154	10.706	10.691	10.729	HH	11730	192128	4.90%	0.126%
155	10.747	10.729	10.788	HH	9245	228108	5.82%	0.150%
156	10.825	10.788	10.854	HH	10672	295409	7.54%	0.194%
157	10.875	10.854	10.898	HH	11518	219391	5.60%	0.144%
158	10.904	10.898	10.933	HH	7141	131470	3.36%	0.086%
159	10.977	10.933	10.985	HH	10636	256744	6.55%	0.169%
160	10.992	10.985	11.010	HH	10407	131687	3.36%	0.087%
161	11.044	11.010	11.072	HH	12298	351414	8.97%	0.231%
162	11.103	11.072	11.113	HH	6904	153640	3.92%	0.101%
163	11.122	11.113	11.143	HH	6475	102293	2.61%	0.067%
164	11.170	11.143	11.184	HH	5664	128171	3.27%	0.084%
165	11.197	11.184	11.202	HH	5960	59385	1.52%	0.039%
166	11.229	11.202	11.268	HH	77114	967225	24.69%	0.636%
167	11.304	11.268	11.345	HH	58160	837638	21.38%	0.551%
168	11.361	11.345	11.388	HH	5964	142323	3.63%	0.094%
169	11.402	11.388	11.463	HH	5180	221471	5.65%	0.146%
170	11.482	11.463	11.496	HH	5287	97731	2.49%	0.064%
171	11.516	11.496	11.527	HH	9655	141877	3.62%	0.093%
172	11.536	11.527	11.560	HH	8149	133003	3.39%	0.087%
173	11.591	11.560	11.603	HH	7076	159649	4.07%	0.105%
174	11.625	11.603	11.650	HH	8125	206779	5.28%	0.136%
175	11.656	11.650	11.663	HH	7276	58049	1.48%	0.038%
176	11.679	11.663	11.695	HH	10315	162531	4.15%	0.107%
177	11.721	11.695	11.739	HH	10818	236584	6.04%	0.156%
178	11.768	11.739	11.801	HH	15779	408720	10.43%	0.269%
179	11.830	11.801	11.853	HH	9721	228364	5.83%	0.150%
180	11.883	11.853	11.903	HH	12298	275477	7.03%	0.181%
181	11.921	11.903	11.933	HH	8802	141458	3.61%	0.093%
182	11.938	11.933	11.967	HH	7754	148073	3.78%	0.097%
183	11.982	11.967	11.999	HH	7283	131628	3.36%	0.087%
184	12.034	11.999	12.049	HH	34389	511723	13.06%	0.337%
185	12.065	12.049	12.086	HH	42634	513179	13.10%	0.338%
186	12.096	12.086	12.110	HH	8612	116246	2.97%	0.076%
187	12.131	12.110	12.138	HH	25480	298919	7.63%	0.197%
188	12.149	12.138	12.166	HH	29328	366340	9.35%	0.241%
189	12.183	12.166	12.197	HH	33182	418161	10.67%	0.275%
190	12.213	12.197	12.248	HH	37531	556118	14.19%	0.366%
191	12.252	12.248	12.260	HH	6153	42968	1.10%	0.028%
192	12.282	12.260	12.310	HH	8461	217384	5.55%	0.143%
193	12.351	12.310	12.366	HH	11873	316449	8.08%	0.208%
194	12.389	12.366	12.408	HH	16907	303753	7.75%	0.200%

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195	12.427	12.408	12.484	HH	13426	474091	12.10%	0.312%
196	12.506	12.484	12.524	HH	20830	336533	8.59%	0.221%
197	12.536	12.524	12.551	HH	11875	172378	4.40%	0.113%
198	12.569	12.551	12.580	HH	14029	209706	5.35%	0.138%
199	12.608	12.580	12.639	HH	135681	1929966	49.26%	1.270%
200	12.653	12.639	12.671	HH	15442	258091	6.59%	0.170%
201	12.683	12.671	12.699	HH	13509	198912	5.08%	0.131%
202	12.714	12.699	12.726	HH	12810	189333	4.83%	0.125%
203	12.736	12.726	12.746	HH	13018	150758	3.85%	0.099%
204	12.760	12.746	12.768	HH	13787	173523	4.43%	0.114%
205	12.781	12.768	12.806	HH	15988	293974	7.50%	0.193%
206	12.827	12.806	12.866	HH	26695	609828	15.56%	0.401%
207	12.885	12.866	12.915	HH	22022	457079	11.67%	0.301%
208	12.939	12.915	12.957	HH	53893	816190	20.83%	0.537%
209	12.975	12.957	12.989	HH	30653	492442	12.57%	0.324%
210	12.999	12.989	13.021	HH	26640	405737	10.36%	0.267%
211	13.055	13.021	13.104	HH	232520	3138360	80.10%	2.065%
212	13.113	13.104	13.125	HH	9726	117854	3.01%	0.078%
213	13.152	13.125	13.166	HH	13970	277509	7.08%	0.183%
214	13.190	13.166	13.226	HH	33322	749538	19.13%	0.493%
215	13.243	13.226	13.280	HH	23613	627701	16.02%	0.413%
216	13.294	13.280	13.326	HH	20209	451679	11.53%	0.297%
217	13.355	13.326	13.379	HH	235334	2915583	74.41%	1.918%
218	13.408	13.379	13.424	HH	24638	501274	12.79%	0.330%
219	13.440	13.424	13.472	HH	27913	553671	14.13%	0.364%
220	13.490	13.472	13.507	HH	15984	301256	7.69%	0.198%
221	13.526	13.507	13.540	HH	19566	329757	8.42%	0.217%
222	13.552	13.540	13.579	HH	17479	343160	8.76%	0.226%
223	13.624	13.579	13.664	HH	24885	940099	23.99%	0.618%
224	13.686	13.664	13.715	HH	29669	642044	16.39%	0.422%
225	13.723	13.715	13.728	HH	14839	115240	2.94%	0.076%
226	13.751	13.728	13.765	HH	25720	443760	11.33%	0.292%
227	13.780	13.765	13.792	HH	23264	341815	8.72%	0.225%
228	13.812	13.792	13.824	HH	40552	634935	16.21%	0.418%
229	13.832	13.824	13.885	HH	33924	850766	21.71%	0.560%
230	13.942	13.885	13.982	HH	72928	1837856	46.91%	1.209%
231	14.012	13.982	14.028	HH	21617	513905	13.12%	0.338%
232	14.051	14.028	14.071	HH	42308	764031	19.50%	0.503%
233	14.090	14.071	14.113	HH	56251	893613	22.81%	0.588%
234	14.139	14.113	14.156	HH	22428	544812	13.90%	0.358%
235	14.174	14.156	14.188	HH	30121	496257	12.67%	0.326%
236	14.221	14.188	14.242	HH	59021	1166741	29.78%	0.768%
237	14.262	14.242	14.297	HH	50225	957703	24.44%	0.630%
238	14.319	14.297	14.356	HH	24521	736117	18.79%	0.484%
239	14.372	14.356	14.385	HH	18434	315519	8.05%	0.208%
240	14.421	14.385	14.442	HH	20195	646713	16.51%	0.425%
241	14.451	14.442	14.464	HH	18827	249920	6.38%	0.164%
242	14.469	14.464	14.487	HH	18472	243447	6.21%	0.160%
243	14.499	14.487	14.504	HH	18244	184481	4.71%	0.121%
244	14.528	14.504	14.543	HH	22250	471767	12.04%	0.310%
245	14.563	14.543	14.571	HH	21810	351385	8.97%	0.231%
246	14.585	14.571	14.598	HH	22390	337303	8.61%	0.222%

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247	14.646	14.598	14.658	HH	32827	964924	24.63%	0.635%
248	14.677	14.658	14.722	HH	42996	1140630	29.11%	0.750%
249	14.762	14.722	14.768	HH	30886	727659	18.57%	0.479%
250	14.782	14.768	14.824	HH	33592	936945	23.91%	0.616%
251	14.860	14.824	14.877	HH	47707	1112497	28.39%	0.732%
252	14.888	14.877	14.902	HH	34045	475819	12.14%	0.313%
253	14.924	14.902	14.944	HH	72145	1173420	29.95%	0.772%
254	14.958	14.944	14.963	HH	32330	348774	8.90%	0.229%
255	14.981	14.963	15.011	HH	44384	944444	24.10%	0.621%
256	15.047	15.011	15.066	HH	30314	847412	21.63%	0.557%
257	15.098	15.066	15.157	HH	108616	2535144	64.70%	1.668%
258	15.188	15.157	15.206	HH	40031	858187	21.90%	0.565%
259	15.236	15.206	15.255	HH	153024	2263000	57.76%	1.489%
260	15.278	15.255	15.307	HH	177214	2579164	65.83%	1.697%
261	15.322	15.307	15.354	HH	29285	762390	19.46%	0.502%
262	15.396	15.354	15.427	HH	55737	1614521	41.21%	1.062%
263	15.439	15.427	15.455	HH	33527	543318	13.87%	0.357%
264	15.471	15.455	15.505	HH	34049	874075	22.31%	0.575%
265	15.539	15.505	15.544	HH	38415	720296	18.38%	0.474%
266	15.550	15.544	15.571	HH	38422	574237	14.66%	0.378%
267	15.591	15.571	15.614	HH	35275	854095	21.80%	0.562%
268	15.619	15.614	15.632	HH	27993	293565	7.49%	0.193%
269	15.681	15.632	15.740	HH	85982	2802880	71.54%	1.844%
270	15.753	15.740	15.768	HH	28912	461191	11.77%	0.303%
271	15.824	15.768	15.844	HH	35575	1426047	36.40%	0.938%
272	15.870	15.844	15.881	HH	38652	759080	19.37%	0.499%
273	15.911	15.881	15.932	HH	83475	1667812	42.57%	1.097%
274	15.948	15.932	15.976	HH	55120	1113819	28.43%	0.733%
275	15.991	15.976	16.007	HH	37194	651086	16.62%	0.428%
276	16.073	16.007	16.108	HH	59492	2674818	68.27%	1.760%
277	16.150	16.108	16.175	HH	39796	1392185	35.53%	0.916%
278	16.196	16.175	16.217	HH	34900	827988	21.13%	0.545%
279	16.235	16.217	16.251	HH	38240	730746	18.65%	0.481%
280	16.267	16.251	16.284	HH	36096	691491	17.65%	0.455%
281	16.330	16.284	16.370	HH	40647	1840874	46.98%	1.211%
282	16.378	16.370	16.393	HH	33479	453000	11.56%	0.298%
283	16.412	16.393	16.426	HH	33866	664776	16.97%	0.437%
284	16.443	16.426	16.470	HH	34977	891422	22.75%	0.586%
285	16.516	16.470	16.536	HH	45681	1517525	38.73%	0.998%
286	16.548	16.536	16.563	HH	40453	619162	15.80%	0.407%
287	16.581	16.563	16.595	HH	41923	748775	19.11%	0.493%
288	16.623	16.595	16.647	HH	47497	1365183	34.84%	0.898%
289	16.704	16.647	16.711	HH	52701	1725790	44.05%	1.135%
290	16.719	16.711	16.752	HH	55215	1152601	29.42%	0.758%
291	16.801	16.752	16.818	HH	186697	3605302	92.02%	2.372%
292	16.827	16.818	16.864	HH	102170	1744987	44.54%	1.148%
293	16.895	16.864	16.905	HH	42082	993669	25.36%	0.654%
294	16.928	16.905	16.951	HH	73404	1524682	38.91%	1.003%
295	16.967	16.951	16.972	HH	46625	567109	14.47%	0.373%
296	16.977	16.972	17.001	HH	46108	762730	19.47%	0.502%
297	17.048	17.001	17.062	HH	47056	1626111	41.50%	1.070%
298	17.121	17.062	17.148	HH	141494	3918140	100.00%	2.578%
299	17.180	17.148	17.218	HH	163586	3347713	85.44%	2.202%

rteres

300	17.251	17.218	17.257	HH	49452	1101775	28.12%	0.725%
301	17.278	17.257	17.308	HH	79698	1885594	48.12%	1.240%
302	17.328	17.308	17.366	HH	58145	1873487	47.82%	1.233%
303	17.423	17.366	17.472	HH	62497	3518476	89.80%	2.315%
304	17.486	17.472	17.501	HHA	56969	976326	24.92%	0.642%

Sum of corrected areas: 152006964

FF061325.M Thu Jul 03 06:53:15 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016084.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:34
Operator : YP\AJ
Sample : Q2458-06
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-60

11

A B C D E F G

Integration File: autoint1.e
Quant Time: Jul 03 03:24:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.099	1348756	11.170 ug/ml
Target Compounds			

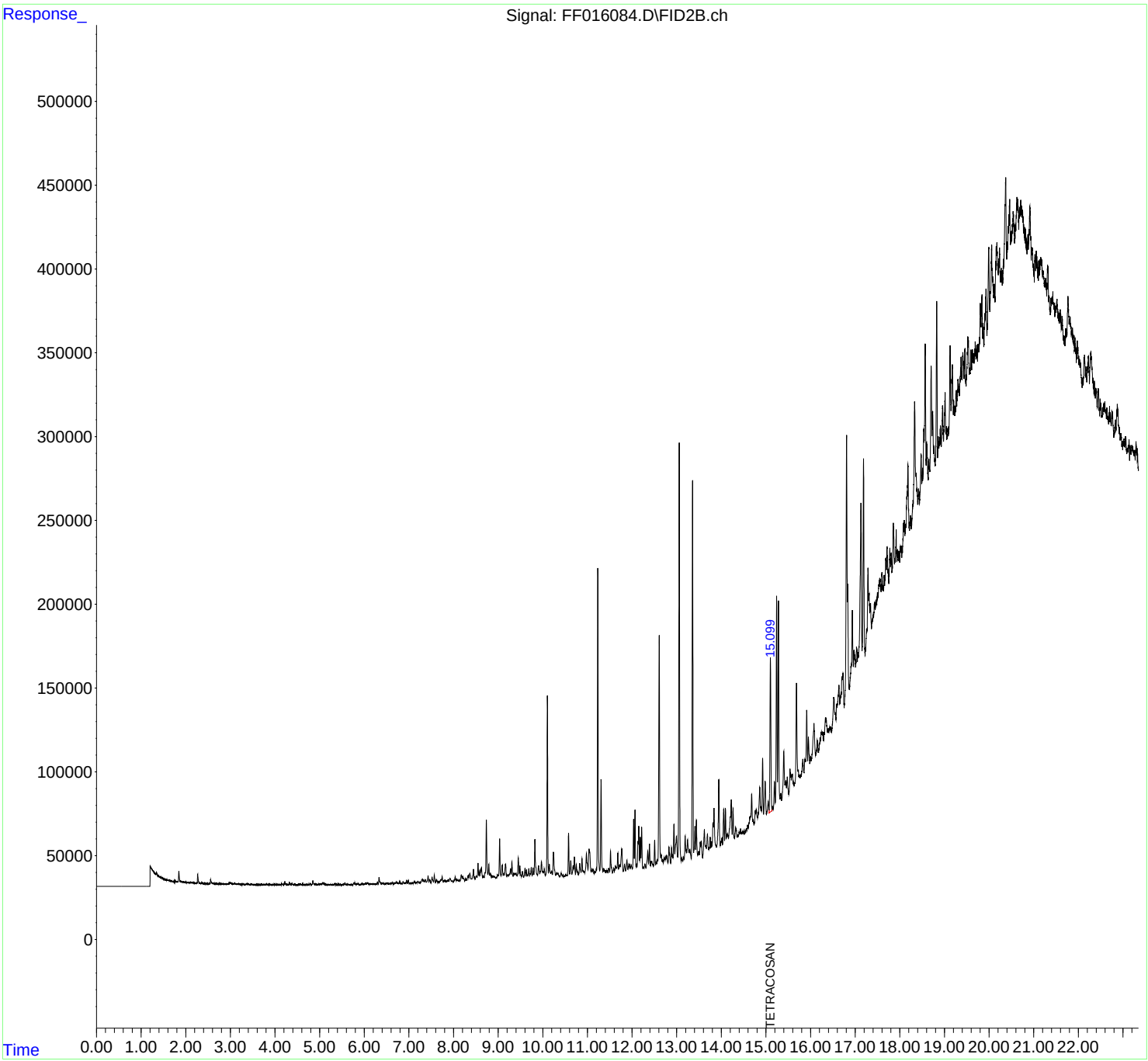
(f)=RT Delta > 1/2 Window (m)=manual int.

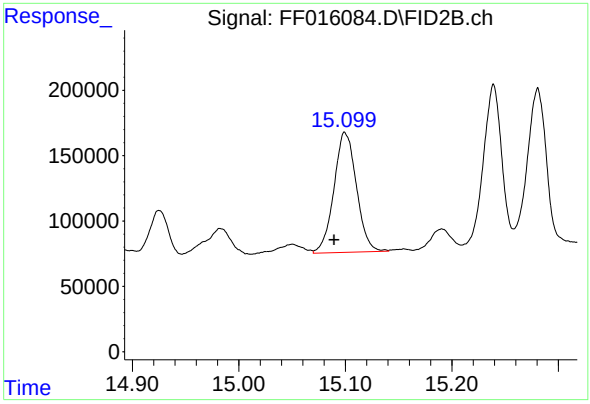
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016084.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:34
Operator : YP\AJ
Sample : Q2458-06
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-60

Integration File: autoint1.e
Quant Time: Jul 03 03:24:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.099 min
Delta R.T.: 0.010 min
Response: 1348756
Conc: 11.17 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-60

11

A B C D E F G

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016084.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 23:34
Sample : Q2458-06
Misc :
ALS Vial : 88 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.544	4.520	4.550	HH	1113	18322	0.21%	0.008%
2	4.571	4.550	4.597	HH	1310	31528	0.37%	0.013%
3	4.621	4.597	4.644	HH	1521	32393	0.38%	0.014%
4	4.652	4.644	4.674	HH	1143	18828	0.22%	0.008%
5	4.694	4.674	4.715	HH	1207	25732	0.30%	0.011%
6	4.741	4.715	4.763	HH	1240	29524	0.35%	0.012%
7	4.781	4.763	4.819	HH	1365	37956	0.44%	0.016%
8	4.849	4.819	4.892	HH	3396	76263	0.89%	0.032%
9	4.904	4.892	4.919	HH	1372	20141	0.24%	0.008%
10	4.929	4.919	4.950	HH	1267	21747	0.25%	0.009%
11	4.986	4.950	5.009	HH	1335	43495	0.51%	0.018%
12	5.029	5.009	5.036	HH	1402	22557	0.26%	0.009%
13	5.042	5.036	5.049	HH	1379	9995	0.12%	0.004%
14	5.064	5.049	5.075	HH	1757	25897	0.30%	0.011%
15	5.081	5.075	5.084	HH	1686	8298	0.10%	0.003%
16	5.088	5.084	5.112	HH	1687	24412	0.29%	0.010%
17	5.126	5.112	5.183	HH	1291	45799	0.54%	0.019%
18	5.200	5.183	5.214	HH	1020	17269	0.20%	0.007%
19	5.243	5.214	5.270	HH	1250	35527	0.42%	0.015%
20	5.274	5.270	5.286	HH	1022	9209	0.11%	0.004%
21	5.305	5.286	5.317	HH	1123	19092	0.22%	0.008%
22	5.334	5.317	5.358	HH	1573	29872	0.35%	0.012%
23	5.374	5.358	5.390	HH	1257	22137	0.26%	0.009%
24	5.406	5.390	5.420	HH	1361	21925	0.26%	0.009%
25	5.425	5.420	5.454	HH	1321	23325	0.27%	0.010%
26	5.462	5.454	5.482	HH	986	15370	0.18%	0.006%
27	5.506	5.482	5.524	HH	1303	25228	0.30%	0.011%
28	5.563	5.524	5.590	HH	2058	50925	0.60%	0.021%
29	5.601	5.590	5.615	HH	1162	15610	0.18%	0.007%
30	5.633	5.615	5.652	HH	1388	25449	0.30%	0.011%
31	5.669	5.652	5.678	HH	1060	15527	0.18%	0.006%
32	5.698	5.678	5.720	HH	1090	24364	0.29%	0.010%
33	5.734	5.720	5.739	HH	947	10273	0.12%	0.004%
34	5.763	5.739	5.775	HH	2052	33517	0.39%	0.014%
35	5.791	5.775	5.822	HH	1998	44930	0.53%	0.019%
36	5.836	5.822	5.850	HH	1665	24146	0.28%	0.010%

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37	5.857	5.850	5.871	HH	1454	16094	0.19%	0.007%
38	5.875	5.871	5.902	HH	1283	21520	0.25%	0.009%
39	5.913	5.902	5.927	HH	1240	16983	0.20%	0.007%
40	5.949	5.927	5.974	HH	1825	40629	0.48%	0.017%
41	6.030	5.974	6.046	HH	2134	63146	0.74%	0.026%
42	6.073	6.046	6.114	HH	2277	68268	0.80%	0.028%
43	6.128	6.114	6.142	HH	1609	24555	0.29%	0.010%
44	6.150	6.142	6.162	HH	1410	15768	0.18%	0.007%
45	6.175	6.162	6.184	HH	1490	18260	0.21%	0.008%
46	6.195	6.184	6.215	HH	1545	25942	0.30%	0.011%
47	6.229	6.215	6.254	HH	1406	30606	0.36%	0.013%
48	6.269	6.254	6.275	HH	1461	17464	0.20%	0.007%
49	6.295	6.275	6.313	HH	2587	43943	0.51%	0.018%
50	6.332	6.313	6.381	HH	5582	114555	1.34%	0.048%
51	6.403	6.381	6.420	HH	2017	41551	0.49%	0.017%
52	6.438	6.420	6.462	HH	2039	40409	0.47%	0.017%
53	6.484	6.462	6.492	HH	1768	28425	0.33%	0.012%
54	6.512	6.492	6.546	HH	2041	56651	0.66%	0.024%
55	6.561	6.546	6.569	HH	1573	20210	0.24%	0.008%
56	6.586	6.569	6.604	HH	1942	35316	0.41%	0.015%
57	6.630	6.604	6.649	HH	2624	52871	0.62%	0.022%
58	6.674	6.649	6.695	HH	1899	47170	0.55%	0.020%
59	6.715	6.695	6.729	HH	2391	42804	0.50%	0.018%
60	6.737	6.729	6.775	HH	2227	53348	0.62%	0.022%
61	6.794	6.775	6.824	HH	3417	66297	0.78%	0.028%
62	6.838	6.824	6.848	HH	1786	24843	0.29%	0.010%
63	6.868	6.848	6.895	HH	2949	62849	0.74%	0.026%
64	6.922	6.895	6.933	HH	2197	43919	0.51%	0.018%
65	6.949	6.933	6.968	HH	3625	56995	0.67%	0.024%
66	6.987	6.968	7.012	HH	3202	63547	0.74%	0.027%
67	7.025	7.012	7.035	HH	1857	23628	0.28%	0.010%
68	7.060	7.035	7.066	HH	2058	34099	0.40%	0.014%
69	7.079	7.066	7.095	HH	2183	35815	0.42%	0.015%
70	7.121	7.095	7.151	HH	2690	77664	0.91%	0.032%
71	7.165	7.151	7.180	HH	2560	40853	0.48%	0.017%
72	7.202	7.180	7.221	HH	3149	63491	0.74%	0.027%
73	7.235	7.221	7.245	HH	2327	31458	0.37%	0.013%
74	7.298	7.245	7.318	HH	3995	140174	1.64%	0.059%
75	7.331	7.318	7.352	HH	3973	70281	0.82%	0.029%
76	7.370	7.352	7.395	HH	4088	83224	0.97%	0.035%
77	7.429	7.395	7.447	HH	6347	124958	1.46%	0.052%
78	7.462	7.447	7.499	HH	3979	98230	1.15%	0.041%
79	7.519	7.499	7.551	HH	5527	119785	1.40%	0.050%
80	7.569	7.551	7.595	HH	6879	106807	1.25%	0.045%
81	7.616	7.595	7.637	HH	3750	80033	0.94%	0.033%
82	7.645	7.637	7.659	HH	2934	37292	0.44%	0.016%
83	7.664	7.659	7.677	HH	2720	28615	0.33%	0.012%
84	7.721	7.677	7.729	HH	3829	98730	1.16%	0.041%
85	7.745	7.729	7.770	HH	5813	104369	1.22%	0.044%
86	7.799	7.770	7.824	HH	3399	104752	1.23%	0.044%
87	7.834	7.824	7.849	HH	3399	47273	0.55%	0.020%
88	7.875	7.849	7.892	HH	3665	86732	1.02%	0.036%
89	7.922	7.892	7.953	HH	4987	144326	1.69%	0.060%

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90	7.974	7.953	7.990	HH	3340	68673	0.80%	0.029%
91	8.011	7.990	8.016	HH	3389	46898	0.55%	0.020%
92	8.037	8.016	8.070	HH	5765	137634	1.61%	0.057%
93	8.084	8.070	8.103	HH	3985	74841	0.88%	0.031%
94	8.132	8.103	8.148	HH	3702	93319	1.09%	0.039%
95	8.173	8.148	8.192	HH	6882	140086	1.64%	0.058%
96	8.204	8.192	8.222	HH	5967	95468	1.12%	0.040%
97	8.230	8.222	8.252	HH	4809	76047	0.89%	0.032%
98	8.274	8.252	8.294	HH	4814	105321	1.23%	0.044%
99	8.329	8.294	8.344	HH	6429	156859	1.84%	0.065%
100	8.364	8.344	8.393	HH	7708	182736	2.14%	0.076%
101	8.396	8.393	8.411	HH	4700	49461	0.58%	0.021%
102	8.447	8.411	8.483	HH	10285	273088	3.20%	0.114%
103	8.509	8.483	8.525	HH	6317	138692	1.62%	0.058%
104	8.549	8.525	8.567	HH	13939	225112	2.64%	0.094%
105	8.577	8.567	8.590	HH	8569	105749	1.24%	0.044%
106	8.606	8.590	8.614	HH	10002	122717	1.44%	0.051%
107	8.626	8.614	8.655	HH	11265	204837	2.40%	0.086%
108	8.670	8.655	8.685	HH	5996	102934	1.20%	0.043%
109	8.736	8.685	8.770	HH	39581	722680	8.46%	0.302%
110	8.791	8.770	8.811	HH	13209	227962	2.67%	0.095%
111	8.825	8.811	8.839	HH	8027	120875	1.41%	0.050%
112	8.848	8.839	8.864	HH	6420	88054	1.03%	0.037%
113	8.880	8.864	8.892	HH	6214	101587	1.19%	0.042%
114	8.899	8.892	8.908	HH	6025	55412	0.65%	0.023%
115	8.922	8.908	8.947	HH	5981	130625	1.53%	0.055%
116	8.984	8.947	8.998	HH	6903	177739	2.08%	0.074%
117	9.034	8.998	9.064	HH	28373	484907	5.68%	0.202%
118	9.090	9.064	9.112	HH	12351	263450	3.08%	0.110%
119	9.125	9.112	9.138	HH	7508	110301	1.29%	0.046%
120	9.167	9.138	9.189	HH	13456	301938	3.53%	0.126%
121	9.199	9.189	9.209	HH	6648	79161	0.93%	0.033%
122	9.222	9.209	9.236	HH	6953	103608	1.21%	0.043%
123	9.254	9.236	9.260	HH	7364	102503	1.20%	0.043%
124	9.277	9.260	9.292	HH	10563	169485	1.98%	0.071%
125	9.309	9.292	9.334	HH	14766	248145	2.90%	0.104%
126	9.351	9.334	9.365	HH	8053	133128	1.56%	0.056%
127	9.400	9.365	9.415	HH	7910	222872	2.61%	0.093%
128	9.452	9.415	9.472	HH	17175	346836	4.06%	0.145%
129	9.488	9.472	9.521	HH	12243	249403	2.92%	0.104%
130	9.544	9.521	9.569	HH	8958	206433	2.42%	0.086%
131	9.603	9.569	9.621	HH	10781	239375	2.80%	0.100%
132	9.636	9.621	9.652	HH	9785	145480	1.70%	0.061%
133	9.687	9.652	9.706	HH	10743	256127	3.00%	0.107%
134	9.720	9.706	9.725	HH	7485	80901	0.95%	0.034%
135	9.742	9.725	9.760	HH	11156	185827	2.18%	0.078%
136	9.783	9.760	9.801	HH	11138	204728	2.40%	0.085%
137	9.824	9.801	9.883	HH	28196	622788	7.29%	0.260%
138	9.905	9.883	9.935	HH	12436	294119	3.44%	0.123%
139	9.945	9.935	9.952	HH	9071	86301	1.01%	0.036%
140	9.970	9.952	9.995	HH	14736	299619	3.51%	0.125%
141	10.004	9.995	10.017	HH	8914	114679	1.34%	0.048%

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142	10.034	10.017	10.057	HH	10599	203827	2.39%	0.085%
143	10.103	10.057	10.125	HH	113895	1405864	16.46%	0.587%
144	10.147	10.125	10.177	HH	13214	309628	3.62%	0.129%
145	10.198	10.177	10.215	HH	8902	188213	2.20%	0.079%
146	10.239	10.215	10.289	HH	20553	524261	6.14%	0.219%
147	10.311	10.289	10.327	HH	8389	174850	2.05%	0.073%
148	10.342	10.327	10.380	HH	7904	218019	2.55%	0.091%
149	10.409	10.380	10.436	HH	7845	228196	2.67%	0.095%
150	10.448	10.436	10.473	HH	6790	142475	1.67%	0.059%
151	10.480	10.473	10.495	HH	6233	80621	0.94%	0.034%
152	10.514	10.495	10.529	HH	7020	131839	1.54%	0.055%
153	10.544	10.529	10.549	HH	6609	79614	0.93%	0.033%
154	10.577	10.549	10.602	HH	31740	487564	5.71%	0.204%
155	10.626	10.602	10.652	HH	15410	316960	3.71%	0.132%
156	10.680	10.652	10.692	HH	12337	237574	2.78%	0.099%
157	10.708	10.692	10.732	HH	17573	304497	3.56%	0.127%
158	10.750	10.732	10.792	HH	13143	343126	4.02%	0.143%
159	10.827	10.792	10.858	HH	13662	387467	4.54%	0.162%
160	10.878	10.858	10.901	HH	16719	312440	3.66%	0.130%
161	10.906	10.901	10.918	HH	9383	93968	1.10%	0.039%
162	10.924	10.918	10.941	HH	8948	115972	1.36%	0.048%
163	10.977	10.941	11.011	HH	19695	551793	6.46%	0.230%
164	11.036	11.011	11.083	HH	22466	689135	8.07%	0.288%
165	11.100	11.083	11.115	HH	10112	184924	2.16%	0.077%
166	11.128	11.115	11.146	HH	10338	170333	1.99%	0.071%
167	11.159	11.146	11.164	HH	8619	87497	1.02%	0.037%
168	11.171	11.164	11.181	HH	8652	89339	1.05%	0.037%
169	11.197	11.181	11.206	HH	10558	140385	1.64%	0.059%
170	11.232	11.206	11.274	HH	189761	2284937	26.75%	0.954%
171	11.306	11.274	11.347	HH	63868	1017558	11.91%	0.425%
172	11.369	11.347	11.415	HH	10352	388986	4.55%	0.162%
173	11.437	11.415	11.458	HH	9513	234641	2.75%	0.098%
174	11.476	11.458	11.498	HH	10857	229245	2.68%	0.096%
175	11.518	11.498	11.562	HH	21017	484759	5.67%	0.202%
176	11.595	11.562	11.606	HH	10084	247687	2.90%	0.103%
177	11.628	11.606	11.637	HH	11619	202948	2.38%	0.085%
178	11.644	11.637	11.659	HH	11486	149422	1.75%	0.062%
179	11.681	11.659	11.699	HH	19886	346673	4.06%	0.145%
180	11.724	11.699	11.737	HH	12850	275733	3.23%	0.115%
181	11.771	11.737	11.803	HH	22402	618421	7.24%	0.258%
182	11.832	11.803	11.855	HH	13264	340437	3.99%	0.142%
183	11.885	11.855	11.907	HH	15814	377211	4.42%	0.157%
184	11.925	11.907	11.930	HH	12208	156240	1.83%	0.065%
185	11.940	11.930	11.962	HH	13244	237728	2.78%	0.099%
186	11.982	11.962	12.004	HH	12586	295287	3.46%	0.123%
187	12.036	12.004	12.051	HH	40042	613405	7.18%	0.256%
188	12.067	12.051	12.088	HH	45711	616701	7.22%	0.257%
189	12.098	12.088	12.111	HH	13149	171843	2.01%	0.072%
190	12.133	12.111	12.139	HH	26992	329016	3.85%	0.137%
191	12.151	12.139	12.168	HH	36008	486219	5.69%	0.203%
192	12.184	12.168	12.199	HH	29440	406788	4.76%	0.170%
193	12.215	12.199	12.242	HH	35407	570229	6.67%	0.238%
194	12.257	12.242	12.269	HH	11398	175682	2.06%	0.073%

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195	12.289	12.269	12.312	HH	13318	316248	3.70%	0.132%
196	12.352	12.312	12.371	HH	21068	549510	6.43%	0.229%
197	12.391	12.371	12.413	HH	25406	457545	5.36%	0.191%
198	12.441	12.413	12.478	HH	14887	535956	6.27%	0.224%
199	12.507	12.478	12.527	HH	27565	520460	6.09%	0.217%
200	12.538	12.527	12.553	HH	14520	217753	2.55%	0.091%
201	12.569	12.553	12.579	HH	16079	229131	2.68%	0.096%
202	12.610	12.579	12.643	HH	150316	2295861	26.87%	0.958%
203	12.657	12.643	12.674	HH	18571	318012	3.72%	0.133%
204	12.684	12.674	12.700	HH	15969	233535	2.73%	0.097%
205	12.716	12.700	12.725	HH	16964	244419	2.86%	0.102%
206	12.736	12.725	12.749	HH	16897	232038	2.72%	0.097%
207	12.764	12.749	12.772	HH	17757	235317	2.75%	0.098%
208	12.781	12.772	12.809	HH	17867	358421	4.20%	0.150%
209	12.828	12.809	12.866	HH	23506	626581	7.33%	0.262%
210	12.887	12.866	12.902	HH	23202	406592	4.76%	0.170%
211	12.908	12.902	12.917	HH	17947	154660	1.81%	0.065%
212	12.940	12.917	12.958	HH	37157	655860	7.68%	0.274%
213	12.997	12.958	13.024	HH	29863	943412	11.04%	0.394%
214	13.058	13.024	13.100	HH	264820	3603527	42.18%	1.504%
215	13.118	13.100	13.132	HH	17090	313418	3.67%	0.131%
216	13.154	13.132	13.166	HH	17086	331689	3.88%	0.138%
217	13.191	13.166	13.226	HH	30167	811594	9.50%	0.339%
218	13.244	13.226	13.282	HH	27817	787501	9.22%	0.329%
219	13.296	13.282	13.327	HH	22075	539156	6.31%	0.225%
220	13.357	13.327	13.380	HH	241636	3027205	35.44%	1.264%
221	13.410	13.380	13.426	HH	35986	720984	8.44%	0.301%
222	13.442	13.426	13.475	HH	39611	793321	9.29%	0.331%
223	13.493	13.475	13.510	HH	20987	418056	4.89%	0.175%
224	13.528	13.510	13.538	HH	26487	390037	4.57%	0.163%
225	13.553	13.538	13.580	HH	27288	582765	6.82%	0.243%
226	13.621	13.580	13.665	HH	33966	1267853	14.84%	0.529%
227	13.689	13.665	13.717	HH	31103	808276	9.46%	0.337%
228	13.731	13.717	13.735	HH	23186	253421	2.97%	0.106%
229	13.752	13.735	13.768	HH	29458	508404	5.95%	0.212%
230	13.781	13.768	13.795	HH	26554	409329	4.79%	0.171%
231	13.814	13.795	13.823	HH	38033	540507	6.33%	0.226%
232	13.836	13.823	13.892	HH	46732	1313094	15.37%	0.548%
233	13.944	13.892	13.977	HH	63846	1825577	21.37%	0.762%
234	14.012	13.977	14.027	HH	28661	802653	9.40%	0.335%
235	14.053	14.027	14.074	HH	45926	963901	11.28%	0.402%
236	14.092	14.074	14.113	HH	46341	854091	10.00%	0.357%
237	14.134	14.113	14.141	HH	31252	506918	5.93%	0.212%
238	14.146	14.141	14.162	HH	30810	381363	4.46%	0.159%
239	14.223	14.162	14.243	HH	51858	1870215	21.89%	0.781%
240	14.262	14.243	14.295	HH	46803	1116865	13.07%	0.466%
241	14.326	14.295	14.359	HH	34688	1220347	14.28%	0.509%
242	14.403	14.359	14.409	HH	32318	925698	10.84%	0.386%
243	14.431	14.409	14.454	HH	34497	879124	10.29%	0.367%
244	14.460	14.454	14.466	HH	31849	221527	2.59%	0.092%
245	14.480	14.466	14.488	HH	32920	430908	5.04%	0.180%
246	14.502	14.488	14.517	HH	32777	575012	6.73%	0.240%

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247	14.530	14.517	14.545	HH	33705	542674	6.35%	0.227%
248	14.566	14.545	14.575	HH	34644	601980	7.05%	0.251%
249	14.588	14.575	14.603	HH	36763	596717	6.98%	0.249%
250	14.649	14.603	14.654	HH	41656	1182902	13.85%	0.494%
251	14.680	14.654	14.707	HH	55117	1441689	16.88%	0.602%
252	14.715	14.707	14.734	HH	39593	617542	7.23%	0.258%
253	14.761	14.734	14.771	HH	45279	922146	10.79%	0.385%
254	14.788	14.771	14.802	HH	45538	835095	9.78%	0.349%
255	14.807	14.802	14.813	HH	41848	268170	3.14%	0.112%
256	14.862	14.813	14.882	HH	59159	2034196	23.81%	0.849%
257	14.887	14.882	14.904	HH	47371	600992	7.03%	0.251%
258	14.925	14.904	14.947	HH	76413	1494211	17.49%	0.624%
259	14.983	14.947	15.012	HH	62694	2000999	23.42%	0.835%
260	15.050	15.012	15.070	HH	50666	1629897	19.08%	0.680%
261	15.099	15.070	15.141	HH	136415	3243438	37.97%	1.354%
262	15.155	15.141	15.164	HH	47117	637397	7.46%	0.266%
263	15.191	15.164	15.209	HH	62352	1478727	17.31%	0.617%
264	15.239	15.209	15.258	HH	173070	2922805	34.21%	1.220%
265	15.281	15.258	15.317	HH	169975	3279583	38.39%	1.369%
266	15.333	15.317	15.349	HH	55585	1045572	12.24%	0.436%
267	15.354	15.349	15.358	HH	52910	275311	3.22%	0.115%
268	15.399	15.358	15.433	HH	80497	2912198	34.09%	1.216%
269	15.447	15.433	15.460	HH	63168	993824	11.63%	0.415%
270	15.478	15.460	15.515	HH	65146	1955316	22.89%	0.816%
271	15.539	15.515	15.567	HH	70078	2024429	23.70%	0.845%
272	15.589	15.567	15.635	HH	66944	2604895	30.49%	1.087%
273	15.685	15.635	15.724	HH	121546	4188099	49.02%	1.748%
274	15.727	15.724	15.748	HH	69494	973903	11.40%	0.407%
275	15.759	15.748	15.768	HH	66473	770890	9.02%	0.322%
276	15.826	15.768	15.853	HH	75856	3550031	41.56%	1.482%
277	15.876	15.853	15.881	HH	75893	1214925	14.22%	0.507%
278	15.914	15.881	15.935	HH	105034	2804599	32.83%	1.171%
279	15.951	15.935	15.982	HH	88458	2262026	26.48%	0.944%
280	16.004	15.982	16.015	HH	77655	1506577	17.64%	0.629%
281	16.077	16.015	16.113	HH	97110	4978846	58.28%	2.078%
282	16.119	16.113	16.123	HH	80021	489451	5.73%	0.204%
283	16.151	16.123	16.172	HH	87077	2435819	28.51%	1.017%
284	16.177	16.172	16.190	HH	82017	853932	10.00%	0.356%
285	16.246	16.190	16.260	HH	92124	3747420	43.87%	1.564%
286	16.264	16.260	16.269	HH	91127	453805	5.31%	0.189%
287	16.273	16.269	16.294	HH	91984	1339499	15.68%	0.559%
288	16.335	16.294	16.341	HH	100473	2674182	31.30%	1.116%
289	16.347	16.341	16.388	HH	100543	2726840	31.92%	1.138%
290	16.448	16.388	16.462	HH	95261	4121812	48.25%	1.721%
291	16.467	16.462	16.471	HH	94224	509922	5.97%	0.213%
292	16.474	16.471	16.477	HH	94196	339135	3.97%	0.142%
293	16.521	16.477	16.552	HH	112314	4707853	55.11%	1.965%
294	16.556	16.552	16.569	HH	103342	1012117	11.85%	0.423%
295	16.587	16.569	16.601	HH	108553	2032373	23.79%	0.848%
296	16.637	16.601	16.656	HH	120048	3741633	43.80%	1.562%
297	16.704	16.656	16.717	HH	125071	4299915	50.33%	1.795%
298	16.728	16.717	16.754	HH	127067	2594514	30.37%	1.083%
299	16.808	16.754	16.825	HH	268142	7027300	82.26%	2.934%

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300	16.832	16.825	16.874	HH	179993	4127203	48.31%	1.723%
301	16.911	16.874	16.915	HH	132160	3134979	36.70%	1.309%
302	16.937	16.915	16.959	HH	164906	3838915	44.94%	1.603%
303	16.976	16.959	17.010	HH	140560	4117124	48.19%	1.719%
304	17.031	17.010	17.050	HH	142209	3326800	38.94%	1.389%
305	17.058	17.050	17.071	HH	139832	1719878	20.13%	0.718%
306	17.129	17.071	17.154	HH	228195	8542924	100.00%	3.566%
307	17.188	17.154	17.222	HH	254985	7160762	83.82%	2.989%
308	17.263	17.222	17.266	HH	153254	3884416	45.47%	1.622%
309	17.287	17.266	17.302	HH	189845	3767087	44.10%	1.573%
310	17.312	17.302	17.326	HH	174556	2425297	28.39%	1.012%
311	17.344	17.326	17.366	HH	168509	3865442	45.25%	1.614%
312	17.381	17.366	17.385	HH	159270	1858920	21.76%	0.776%
313	17.405	17.385	17.412	HH	162020	2569131	30.07%	1.072%
314	17.435	17.412	17.448	HH	169266	3598934	42.13%	1.502%
315	17.460	17.448	17.466	HH	170028	1737115	20.33%	0.725%
316	17.478	17.466	17.483	HH	171058	1822144	21.33%	0.761%

Sum of corrected areas: 239552652

FF061325.M Thu Jul 03 06:54:49 2025

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

LAB CHRONICLE

OrderID:	Q2458	**OrderDate:**	6/27/2025 4:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	**TP-76**	**SOIL**			**06/26/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-02	**TP-55**	**SOIL**			**06/26/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-03	**TP-68**	**SOIL**			**06/27/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-04	**TP-67**	**SOIL**			**06/27/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-05	**TP-66**	**SOIL**			**06/27/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-06	**TP-60**	**SOIL**			**06/27/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-07	**TP-62**	**SOIL**			**06/27/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-08	**TP-63**	**SOIL**			**06/27/25**			**06/27/25**
			Mercury	7471B		07/01/25	07/02/25	
			Metals ICP-TAL	6010D		07/01/25	07/03/25	
Q2458-09	**TP-59**	**SOIL**			**06/27/25**			**06/27/25**

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

LAB CHRONICLE

			Mercury	7471B		07/01/25	07/02/25
			Metals ICP-TAL	6010D		07/01/25	07/03/25
Q2458-10	**FB-06272025**	**Water**			**06/27/25**		**06/27/25**
			Mercury	7470A		07/01/25	07/01/25
			Metals ICP-TAL	6010D		07/01/25	07/03/25

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

Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-76								
Q2458-01	TP-76	SOIL	Aluminum	9480		0.85	5.06	mg/Kg
Q2458-01	TP-76	SOIL	Arsenic	3.70		0.19	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Barium	27.9		0.74	5.06	mg/Kg
Q2458-01	TP-76	SOIL	Beryllium	0.42		0.025	0.30	mg/Kg
Q2458-01	TP-76	SOIL	Calcium	331		11.2	101	mg/Kg
Q2458-01	TP-76	SOIL	Chromium	6.84		0.048	0.51	mg/Kg
Q2458-01	TP-76	SOIL	Cobalt	2.49		0.10	1.52	mg/Kg
Q2458-01	TP-76	SOIL	Copper	4.94		0.22	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Iron	12500		4.04	5.06	mg/Kg
Q2458-01	TP-76	SOIL	Lead	22.7		0.13	0.61	mg/Kg
Q2458-01	TP-76	SOIL	Magnesium	247		12.2	101	mg/Kg
Q2458-01	TP-76	SOIL	Manganese	24.9		0.14	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Mercury	0.010	J	0.0080	0.014	mg/Kg
Q2458-01	TP-76	SOIL	Nickel	4.26		0.13	2.03	mg/Kg
Q2458-01	TP-76	SOIL	Potassium	247		28.0	101	mg/Kg
Q2458-01	TP-76	SOIL	Selenium	0.79	J	0.26	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Sodium	767		18.0	101	mg/Kg
Q2458-01	TP-76	SOIL	Vanadium	17.6		0.25	2.03	mg/Kg
Q2458-01	TP-76	SOIL	Zinc	15.8		0.23	2.03	mg/Kg
Client ID : TP-55								
Q2458-02	TP-55	SOIL	Aluminum	5480		0.74	4.43	mg/Kg
Q2458-02	TP-55	SOIL	Arsenic	3.37		0.17	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Barium	19.8		0.65	4.43	mg/Kg
Q2458-02	TP-55	SOIL	Beryllium	0.46		0.022	0.27	mg/Kg
Q2458-02	TP-55	SOIL	Calcium	999		9.83	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Chromium	8.61		0.042	0.44	mg/Kg
Q2458-02	TP-55	SOIL	Cobalt	4.17		0.089	1.33	mg/Kg
Q2458-02	TP-55	SOIL	Copper	22.1		0.20	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Iron	15800		3.53	4.43	mg/Kg
Q2458-02	TP-55	SOIL	Lead	9.31		0.12	0.53	mg/Kg
Q2458-02	TP-55	SOIL	Magnesium	731		10.6	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Manganese	51.6		0.12	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Mercury	0.0080	J	0.0080	0.014	mg/Kg
Q2458-02	TP-55	SOIL	Nickel	6.64		0.12	1.77	mg/Kg
Q2458-02	TP-55	SOIL	Potassium	270		24.5	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Selenium	3.83		0.23	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Silver	0.47		0.11	0.44	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-02	TP-55	SOIL	Sodium	358		15.8	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Vanadium	20.8		0.22	1.77	mg/Kg
Q2458-02	TP-55	SOIL	Zinc	32.0		0.20	1.77	mg/Kg
Client ID : TP-68								
Q2458-03	TP-68	SOIL	Aluminum	4030		0.83	4.92	mg/Kg
Q2458-03	TP-68	SOIL	Arsenic	1.61		0.19	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Barium	7.39		0.72	4.92	mg/Kg
Q2458-03	TP-68	SOIL	Beryllium	0.13	J	0.025	0.30	mg/Kg
Q2458-03	TP-68	SOIL	Calcium	1990		10.9	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Chromium	9.01		0.046	0.49	mg/Kg
Q2458-03	TP-68	SOIL	Cobalt	4.51		0.098	1.48	mg/Kg
Q2458-03	TP-68	SOIL	Copper	45.1		0.22	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Iron	9290		3.93	4.92	mg/Kg
Q2458-03	TP-68	SOIL	Lead	5.32		0.13	0.59	mg/Kg
Q2458-03	TP-68	SOIL	Magnesium	2200		11.8	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Manganese	65.0		0.14	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Mercury	0.050		0.0070	0.013	mg/Kg
Q2458-03	TP-68	SOIL	Nickel	9.84		0.13	1.97	mg/Kg
Q2458-03	TP-68	SOIL	Potassium	521		27.3	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Selenium	2.38		0.26	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Silver	0.37	J	0.12	0.49	mg/Kg
Q2458-03	TP-68	SOIL	Sodium	582		17.5	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Vanadium	20.1		0.25	1.97	mg/Kg
Q2458-03	TP-68	SOIL	Zinc	12.9		0.23	1.97	mg/Kg
Client ID : TP-67								
Q2458-04	TP-67	SOIL	Aluminum	3970		0.85	5.04	mg/Kg
Q2458-04	TP-67	SOIL	Arsenic	5.78		0.19	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Barium	6.65		0.74	5.04	mg/Kg
Q2458-04	TP-67	SOIL	Beryllium	0.47		0.025	0.30	mg/Kg
Q2458-04	TP-67	SOIL	Calcium	443		11.2	101	mg/Kg
Q2458-04	TP-67	SOIL	Chromium	20.2		0.047	0.50	mg/Kg
Q2458-04	TP-67	SOIL	Cobalt	1.89		0.10	1.51	mg/Kg
Q2458-04	TP-67	SOIL	Copper	25.4		0.22	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Iron	27900		4.03	5.04	mg/Kg
Q2458-04	TP-67	SOIL	Lead	8.85		0.13	0.61	mg/Kg
Q2458-04	TP-67	SOIL	Magnesium	241		12.1	101	mg/Kg
Q2458-04	TP-67	SOIL	Manganese	34.8		0.14	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2458-04	TP-67	SOIL	Nickel	3.55		0.13	2.02	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-04	TP-67	SOIL	Potassium	274		27.9	101	mg/Kg
Q2458-04	TP-67	SOIL	Selenium	6.91		0.26	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Silver	0.83		0.12	0.50	mg/Kg
Q2458-04	TP-67	SOIL	Sodium	31.5	J	18.0	101	mg/Kg
Q2458-04	TP-67	SOIL	Thallium	0.64	J	0.23	2.02	mg/Kg
Q2458-04	TP-67	SOIL	Vanadium	22.2		0.25	2.02	mg/Kg
Q2458-04	TP-67	SOIL	Zinc	15.8		0.23	2.02	mg/Kg
Client ID : TP-66								
Q2458-05	TP-66	SOIL	Aluminum	2430		0.91	5.39	mg/Kg
Q2458-05	TP-66	SOIL	Arsenic	5.43		0.21	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Barium	9.75		0.79	5.39	mg/Kg
Q2458-05	TP-66	SOIL	Beryllium	0.37		0.027	0.32	mg/Kg
Q2458-05	TP-66	SOIL	Calcium	598		12.0	108	mg/Kg
Q2458-05	TP-66	SOIL	Chromium	9.03		0.051	0.54	mg/Kg
Q2458-05	TP-66	SOIL	Cobalt	1.06	J	0.11	1.62	mg/Kg
Q2458-05	TP-66	SOIL	Copper	23.2		0.24	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Iron	21800		4.30	5.39	mg/Kg
Q2458-05	TP-66	SOIL	Lead	16.8		0.14	0.65	mg/Kg
Q2458-05	TP-66	SOIL	Magnesium	258		12.9	108	mg/Kg
Q2458-05	TP-66	SOIL	Manganese	54.0		0.15	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2458-05	TP-66	SOIL	Nickel	2.15	J	0.14	2.16	mg/Kg
Q2458-05	TP-66	SOIL	Potassium	403		29.9	108	mg/Kg
Q2458-05	TP-66	SOIL	Selenium	5.20		0.28	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Silver	0.64		0.13	0.54	mg/Kg
Q2458-05	TP-66	SOIL	Sodium	195		19.2	108	mg/Kg
Q2458-05	TP-66	SOIL	Thallium	0.39	J	0.25	2.16	mg/Kg
Q2458-05	TP-66	SOIL	Vanadium	19.5		0.27	2.16	mg/Kg
Q2458-05	TP-66	SOIL	Zinc	16.6		0.25	2.16	mg/Kg
Client ID : TP-60								
Q2458-06	TP-60	SOIL	Aluminum	4300		0.80	4.78	mg/Kg
Q2458-06	TP-60	SOIL	Arsenic	9.45		0.18	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Barium	13.1		0.70	4.78	mg/Kg
Q2458-06	TP-60	SOIL	Beryllium	0.75		0.024	0.29	mg/Kg
Q2458-06	TP-60	SOIL	Calcium	1190		10.6	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Chromium	29.6		0.045	0.48	mg/Kg
Q2458-06	TP-60	SOIL	Cobalt	2.92		0.096	1.44	mg/Kg
Q2458-06	TP-60	SOIL	Copper	35.2		0.21	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Iron	31500		3.82	4.78	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-06	TP-60	SOIL	Lead	23.4		0.12	0.57	mg/Kg
Q2458-06	TP-60	SOIL	Magnesium	678		11.5	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Manganese	43.3		0.13	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Mercury	0.036		0.0070	0.013	mg/Kg
Q2458-06	TP-60	SOIL	Nickel	5.05		0.12	1.91	mg/Kg
Q2458-06	TP-60	SOIL	Potassium	441		26.5	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Selenium	7.12		0.25	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Silver	0.78		0.12	0.48	mg/Kg
Q2458-06	TP-60	SOIL	Sodium	88.5	J	17.0	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Thallium	0.35	J	0.22	1.91	mg/Kg
Q2458-06	TP-60	SOIL	Vanadium	33.7		0.24	1.91	mg/Kg
Q2458-06	TP-60	SOIL	Zinc	33.4		0.22	1.91	mg/Kg
Client ID :	**TP-62**							
Q2458-07	TP-62	SOIL	Aluminum	3670		0.86	5.13	mg/Kg
Q2458-07	TP-62	SOIL	Arsenic	5.46		0.20	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Barium	19.8		0.75	5.13	mg/Kg
Q2458-07	TP-62	SOIL	Beryllium	0.35		0.026	0.31	mg/Kg
Q2458-07	TP-62	SOIL	Calcium	14600		11.4	103	mg/Kg
Q2458-07	TP-62	SOIL	Chromium	9.01		0.048	0.51	mg/Kg
Q2458-07	TP-62	SOIL	Cobalt	2.15		0.10	1.54	mg/Kg
Q2458-07	TP-62	SOIL	Copper	28.5		0.23	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Iron	22800		4.09	5.13	mg/Kg
Q2458-07	TP-62	SOIL	Lead	24.6		0.13	0.62	mg/Kg
Q2458-07	TP-62	SOIL	Magnesium	4670		12.3	103	mg/Kg
Q2458-07	TP-62	SOIL	Manganese	46.3		0.14	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Mercury	0.025		0.0080	0.014	mg/Kg
Q2458-07	TP-62	SOIL	Nickel	3.89		0.13	2.05	mg/Kg
Q2458-07	TP-62	SOIL	Potassium	469		28.4	103	mg/Kg
Q2458-07	TP-62	SOIL	Selenium	5.15		0.27	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Silver	0.69		0.12	0.51	mg/Kg
Q2458-07	TP-62	SOIL	Sodium	789		18.3	103	mg/Kg
Q2458-07	TP-62	SOIL	Vanadium	23.2		0.26	2.05	mg/Kg
Q2458-07	TP-62	SOIL	Zinc	21.6		0.24	2.05	mg/Kg
Client ID :	**TP-63**							
Q2458-08	TP-63	SOIL	Aluminum	6130		0.88	5.26	mg/Kg
Q2458-08	TP-63	SOIL	Arsenic	4.81		0.20	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Barium	15.0		0.77	5.26	mg/Kg
Q2458-08	TP-63	SOIL	Beryllium	0.50		0.026	0.32	mg/Kg
Q2458-08	TP-63	SOIL	Calcium	4590		11.7	105	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2458 **Order ID:** Q2458

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-08	TP-63	SOIL	Chromium	11.4		0.049	0.53	mg/Kg
Q2458-08	TP-63	SOIL	Cobalt	3.45		0.11	1.58	mg/Kg
Q2458-08	TP-63	SOIL	Copper	23.6		0.23	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Iron	19500		4.20	5.26	mg/Kg
Q2458-08	TP-63	SOIL	Lead	26.5		0.14	0.63	mg/Kg
Q2458-08	TP-63	SOIL	Magnesium	1370		12.6	105	mg/Kg
Q2458-08	TP-63	SOIL	Manganese	58.3		0.15	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Mercury	0.042		0.0090	0.015	mg/Kg
Q2458-08	TP-63	SOIL	Nickel	6.26		0.14	2.10	mg/Kg
Q2458-08	TP-63	SOIL	Potassium	409		29.1	105	mg/Kg
Q2458-08	TP-63	SOIL	Selenium	4.96		0.27	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Silver	0.88		0.13	0.53	mg/Kg
Q2458-08	TP-63	SOIL	Sodium	460		18.7	105	mg/Kg
Q2458-08	TP-63	SOIL	Vanadium	25.0		0.26	2.10	mg/Kg
Q2458-08	TP-63	SOIL	Zinc	25.6		0.24	2.10	mg/Kg
Client ID : TP-59								
Q2458-09	TP-59	SOIL	Aluminum	3850		0.97	5.78	mg/Kg
Q2458-09	TP-59	SOIL	Arsenic	4.05		0.22	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Barium	24.2		0.84	5.78	mg/Kg
Q2458-09	TP-59	SOIL	Beryllium	0.35		0.029	0.35	mg/Kg
Q2458-09	TP-59	SOIL	Calcium	1970		12.8	116	mg/Kg
Q2458-09	TP-59	SOIL	Chromium	7.63		0.054	0.58	mg/Kg
Q2458-09	TP-59	SOIL	Cobalt	1.40	J	0.12	1.73	mg/Kg
Q2458-09	TP-59	SOIL	Copper	32.0		0.25	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Iron	23200		4.61	5.78	mg/Kg
Q2458-09	TP-59	SOIL	Lead	62.4		0.15	0.69	mg/Kg
Q2458-09	TP-59	SOIL	Magnesium	385		13.9	116	mg/Kg
Q2458-09	TP-59	SOIL	Manganese	78.7		0.16	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Mercury	0.090		0.010	0.018	mg/Kg
Q2458-09	TP-59	SOIL	Nickel	3.71		0.15	2.31	mg/Kg
Q2458-09	TP-59	SOIL	Potassium	503		32.0	116	mg/Kg
Q2458-09	TP-59	SOIL	Selenium	5.64		0.30	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Silver	1.02		0.14	0.58	mg/Kg
Q2458-09	TP-59	SOIL	Sodium	173		20.6	116	mg/Kg
Q2458-09	TP-59	SOIL	Thallium	0.53	J	0.27	2.31	mg/Kg
Q2458-09	TP-59	SOIL	Vanadium	17.2		0.29	2.31	mg/Kg
Q2458-09	TP-59	SOIL	Zinc	35.6		0.27	2.31	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9480		1	0.85	5.06	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.53	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-38-2	Arsenic	3.70		1	0.19	1.01	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-39-3	Barium	27.9		1	0.74	5.06	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-41-7	Beryllium	0.42		1	0.025	0.30	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-70-2	Calcium	331		1	11.2	101	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-47-3	Chromium	6.84		1	0.048	0.51	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-48-4	Cobalt	2.49		1	0.10	1.52	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-50-8	Copper	4.94	N*	1	0.22	1.01	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7439-89-6	Iron	12500		1	4.04	5.06	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7439-92-1	Lead	22.7		1	0.13	0.61	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7439-95-4	Magnesium	247		1	12.2	101	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7439-96-5	Manganese	24.9		1	0.14	1.01	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7439-97-6	Mercury	0.010	J	1	0.0080	0.014	mg/Kg	07/01/25 14:10	07/02/25 11:23	7471B	
7440-02-0	Nickel	4.26		1	0.13	2.03	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-09-7	Potassium	247	N	1	28.0	101	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7782-49-2	Selenium	0.79	J	1	0.26	1.01	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-23-5	Sodium	767		1	18.0	101	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.03	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-62-2	Vanadium	17.6	N	1	0.25	2.03	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050
7440-66-6	Zinc	15.8	N	1	0.23	2.03	mg/Kg	07/01/25 10:10	07/03/25 14:17	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5480		1	0.74	4.43	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-36-0	Antimony	0.20	UN	1	0.20	2.21	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-38-2	Arsenic	3.37		1	0.17	0.89	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-39-3	Barium	19.8		1	0.65	4.43	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-41-7	Beryllium	0.46		1	0.022	0.27	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-43-9	Cadmium	0.021	U	1	0.021	0.27	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-70-2	Calcium	999		1	9.83	88.6	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-47-3	Chromium	8.61		1	0.042	0.44	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-48-4	Cobalt	4.17		1	0.089	1.33	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-50-8	Copper	22.1	N*	1	0.20	0.89	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7439-89-6	Iron	15800		1	3.53	4.43	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7439-92-1	Lead	9.31		1	0.12	0.53	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7439-95-4	Magnesium	731		1	10.6	88.6	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7439-96-5	Manganese	51.6		1	0.12	0.89	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7439-97-6	Mercury	0.0080	J	1	0.0080	0.014	mg/Kg	07/01/25 14:10	07/02/25 11:25	7471B	
7440-02-0	Nickel	6.64		1	0.12	1.77	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-09-7	Potassium	270	N	1	24.5	88.6	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7782-49-2	Selenium	3.83		1	0.23	0.89	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-22-4	Silver	0.47		1	0.11	0.44	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-23-5	Sodium	358		1	15.8	88.6	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-28-0	Thallium	0.20	U	1	0.20	1.77	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-62-2	Vanadium	20.8	N	1	0.22	1.77	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050
7440-66-6	Zinc	32.0	N	1	0.20	1.77	mg/Kg	07/01/25 10:10	07/03/25 15:12	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4030		1	0.83	4.92	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.46	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-38-2	Arsenic	1.61		1	0.19	0.99	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-39-3	Barium	7.39		1	0.72	4.92	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-41-7	Beryllium	0.13	J	1	0.025	0.30	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-70-2	Calcium	1990		1	10.9	98.5	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-47-3	Chromium	9.01		1	0.046	0.49	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-48-4	Cobalt	4.51		1	0.098	1.48	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-50-8	Copper	45.1	N*	1	0.22	0.99	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7439-89-6	Iron	9290		1	3.93	4.92	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7439-92-1	Lead	5.32		1	0.13	0.59	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7439-95-4	Magnesium	2200		1	11.8	98.5	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7439-96-5	Manganese	65.0		1	0.14	0.99	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7439-97-6	Mercury	0.050		1	0.0070	0.013	mg/Kg	07/01/25 14:10	07/02/25 11:42	7471B	
7440-02-0	Nickel	9.84		1	0.13	1.97	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-09-7	Potassium	521	N	1	27.3	98.5	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7782-49-2	Selenium	2.38		1	0.26	0.99	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-22-4	Silver	0.37	J	1	0.12	0.49	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-23-5	Sodium	582		1	17.5	98.5	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.97	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-62-2	Vanadium	20.1	N	1	0.25	1.97	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050
7440-66-6	Zinc	12.9	N	1	0.23	1.97	mg/Kg	07/01/25 10:10	07/03/25 16:34	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3970		1	0.85	5.04	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-38-2	Arsenic	5.78		1	0.19	1.01	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-39-3	Barium	6.65		1	0.74	5.04	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-41-7	Beryllium	0.47		1	0.025	0.30	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-70-2	Calcium	443		1	11.2	101	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-47-3	Chromium	20.2		1	0.047	0.50	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-48-4	Cobalt	1.89		1	0.10	1.51	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-50-8	Copper	25.4	N*	1	0.22	1.01	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7439-89-6	Iron	27900		1	4.03	5.04	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7439-92-1	Lead	8.85		1	0.13	0.61	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7439-95-4	Magnesium	241		1	12.1	101	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7439-96-5	Manganese	34.8		1	0.14	1.01	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7439-97-6	Mercury	0.016		1	0.0080	0.014	mg/Kg	07/01/25 14:10	07/02/25 11:44	7471B	
7440-02-0	Nickel	3.55		1	0.13	2.02	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-09-7	Potassium	274	N	1	27.9	101	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7782-49-2	Selenium	6.91		1	0.26	1.01	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-22-4	Silver	0.83		1	0.12	0.50	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-23-5	Sodium	31.5	J	1	18.0	101	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-28-0	Thallium	0.64	J	1	0.23	2.02	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-62-2	Vanadium	22.2	N	1	0.25	2.02	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050
7440-66-6	Zinc	15.8	N	1	0.23	2.02	mg/Kg	07/01/25 10:10	07/03/25 15:16	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2430		1	0.91	5.39	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.70	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-38-2	Arsenic	5.43		1	0.21	1.08	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-39-3	Barium	9.75		1	0.79	5.39	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-41-7	Beryllium	0.37		1	0.027	0.32	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-70-2	Calcium	598		1	12.0	108	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-47-3	Chromium	9.03		1	0.051	0.54	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-48-4	Cobalt	1.06	J	1	0.11	1.62	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-50-8	Copper	23.2	N*	1	0.24	1.08	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7439-89-6	Iron	21800		1	4.30	5.39	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7439-92-1	Lead	16.8		1	0.14	0.65	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7439-95-4	Magnesium	258		1	12.9	108	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7439-96-5	Manganese	54.0		1	0.15	1.08	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7439-97-6	Mercury	0.016		1	0.0080	0.014	mg/Kg	07/01/25 14:10	07/02/25 11:47	7471B	
7440-02-0	Nickel	2.15	J	1	0.14	2.16	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-09-7	Potassium	403	N	1	29.9	108	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7782-49-2	Selenium	5.20		1	0.28	1.08	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-22-4	Silver	0.64		1	0.13	0.54	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-23-5	Sodium	195		1	19.2	108	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-28-0	Thallium	0.39	J	1	0.25	2.16	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-62-2	Vanadium	19.5	N	1	0.27	2.16	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050
7440-66-6	Zinc	16.6	N	1	0.25	2.16	mg/Kg	07/01/25 10:10	07/03/25 15:20	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4300		1	0.80	4.78	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.39	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-38-2	Arsenic	9.45		1	0.18	0.96	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-39-3	Barium	13.1		1	0.70	4.78	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-41-7	Beryllium	0.75		1	0.024	0.29	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-70-2	Calcium	1190		1	10.6	95.7	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-47-3	Chromium	29.6		1	0.045	0.48	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-48-4	Cobalt	2.92		1	0.096	1.44	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-50-8	Copper	35.2	N*	1	0.21	0.96	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7439-89-6	Iron	31500		1	3.82	4.78	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7439-92-1	Lead	23.4		1	0.12	0.57	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7439-95-4	Magnesium	678		1	11.5	95.7	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7439-96-5	Manganese	43.3		1	0.13	0.96	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7439-97-6	Mercury	0.036		1	0.0070	0.013	mg/Kg	07/01/25 14:10	07/02/25 11:49	7471B	
7440-02-0	Nickel	5.05		1	0.12	1.91	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-09-7	Potassium	441	N	1	26.5	95.7	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7782-49-2	Selenium	7.12		1	0.25	0.96	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-22-4	Silver	0.78		1	0.12	0.48	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-23-5	Sodium	88.5	J	1	17.0	95.7	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-28-0	Thallium	0.35	J	1	0.22	1.91	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-62-2	Vanadium	33.7	N	1	0.24	1.91	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050
7440-66-6	Zinc	33.4	N	1	0.22	1.91	mg/Kg	07/01/25 10:10	07/03/25 15:24	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3670		1	0.86	5.13	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.56	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-38-2	Arsenic	5.46		1	0.20	1.03	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-39-3	Barium	19.8		1	0.75	5.13	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-41-7	Beryllium	0.35		1	0.026	0.31	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.31	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-70-2	Calcium	14600		1	11.4	103	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-47-3	Chromium	9.01		1	0.048	0.51	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-48-4	Cobalt	2.15		1	0.10	1.54	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-50-8	Copper	28.5	N*	1	0.23	1.03	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7439-89-6	Iron	22800		1	4.09	5.13	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7439-92-1	Lead	24.6		1	0.13	0.62	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7439-95-4	Magnesium	4670		1	12.3	103	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7439-96-5	Manganese	46.3		1	0.14	1.03	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7439-97-6	Mercury	0.025		1	0.0080	0.014	mg/Kg	07/01/25 14:10	07/02/25 11:51	7471B	
7440-02-0	Nickel	3.89		1	0.13	2.05	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-09-7	Potassium	469	N	1	28.4	103	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7782-49-2	Selenium	5.15		1	0.27	1.03	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-22-4	Silver	0.69		1	0.12	0.51	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-23-5	Sodium	789		1	18.3	103	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.05	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-62-2	Vanadium	23.2	N	1	0.26	2.05	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050
7440-66-6	Zinc	21.6	N	1	0.24	2.05	mg/Kg	07/01/25 10:10	07/03/25 15:29	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6130		1	0.88	5.26	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.63	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-38-2	Arsenic	4.81		1	0.20	1.05	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-39-3	Barium	15.0		1	0.77	5.26	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-41-7	Beryllium	0.50		1	0.026	0.32	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.32	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-70-2	Calcium	4590		1	11.7	105	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-47-3	Chromium	11.4		1	0.049	0.53	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-48-4	Cobalt	3.45		1	0.11	1.58	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-50-8	Copper	23.6	N*	1	0.23	1.05	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7439-89-6	Iron	19500		1	4.20	5.26	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7439-92-1	Lead	26.5		1	0.14	0.63	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7439-95-4	Magnesium	1370		1	12.6	105	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7439-96-5	Manganese	58.3		1	0.15	1.05	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7439-97-6	Mercury	0.042		1	0.0090	0.015	mg/Kg	07/01/25 14:10	07/02/25 11:54	7471B	
7440-02-0	Nickel	6.26		1	0.14	2.10	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-09-7	Potassium	409	N	1	29.1	105	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7782-49-2	Selenium	4.96		1	0.27	1.05	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-22-4	Silver	0.88		1	0.13	0.53	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-23-5	Sodium	460		1	18.7	105	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.10	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-62-2	Vanadium	25.0	N	1	0.26	2.10	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050
7440-66-6	Zinc	25.6	N	1	0.24	2.10	mg/Kg	07/01/25 10:10	07/03/25 17:10	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3850		1	0.97	5.78	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.89	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-38-2	Arsenic	4.05		1	0.22	1.16	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-39-3	Barium	24.2		1	0.84	5.78	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-41-7	Beryllium	0.35		1	0.029	0.35	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-43-9	Cadmium	0.028	U	1	0.028	0.35	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-70-2	Calcium	1970		1	12.8	116	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-47-3	Chromium	7.63		1	0.054	0.58	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-48-4	Cobalt	1.40	J	1	0.12	1.73	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-50-8	Copper	32.0	N*	1	0.25	1.16	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7439-89-6	Iron	23200		1	4.61	5.78	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7439-92-1	Lead	62.4		1	0.15	0.69	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7439-95-4	Magnesium	385		1	13.9	116	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7439-96-5	Manganese	78.7		1	0.16	1.16	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7439-97-6	Mercury	0.090		1	0.010	0.018	mg/Kg	07/01/25 14:10	07/02/25 11:56	7471B	
7440-02-0	Nickel	3.71		1	0.15	2.31	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-09-7	Potassium	503	N	1	32.0	116	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7782-49-2	Selenium	5.64		1	0.30	1.16	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-22-4	Silver	1.02		1	0.14	0.58	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-23-5	Sodium	173		1	20.6	116	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-28-0	Thallium	0.53	J	1	0.27	2.31	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-62-2	Vanadium	17.2	N	1	0.29	2.31	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050
7440-66-6	Zinc	35.6	N	1	0.27	2.31	mg/Kg	07/01/25 10:10	07/03/25 17:14	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5.67	UN	1	5.67	50.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-36-0	Antimony	3.38	U	1	3.38	25.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-38-2	Arsenic	2.56	U	1	2.56	10.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-39-3	Barium	7.28	U	1	7.28	50.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-41-7	Beryllium	0.28	U	1	0.28	3.00	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-43-9	Cadmium	0.25	U	1	0.25	3.00	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-70-2	Calcium	117	U	1	117	1000	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-47-3	Chromium	1.06	U	1	1.06	5.00	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-48-4	Cobalt	1.13	U	1	1.13	15.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-50-8	Copper	2.30	U	1	2.30	10.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7439-89-6	Iron	11.7	U	1	11.7	50.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7439-92-1	Lead	1.15	U	1	1.15	6.00	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7439-95-4	Magnesium	122	U	1	122	1000	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7439-96-5	Manganese	2.97	U	1	2.97	10.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7439-97-6	Mercury	0.076	U	1	0.076	0.20	ug/L	07/01/25 08:25	07/01/25 12:35	7470A	
7440-02-0	Nickel	1.53	U	1	1.53	20.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-09-7	Potassium	459	U	1	459	1000	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7782-49-2	Selenium	4.82	U	1	4.82	10.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-22-4	Silver	0.81	UN*	1	0.81	5.00	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-23-5	Sodium	434	U	1	434	1000	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-28-0	Thallium	2.19	U	1	2.19	20.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-62-2	Vanadium	3.13	U	1	3.13	20.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010
7440-66-6	Zinc	8.33	U	1	8.33	20.0	ug/L	07/01/25 10:05	07/03/25 15:04	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
ICV13	Mercury	3.97	4.0	99	90 - 110	CV	07/01/2025	11:43	LB136337

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
CCV40	Mercury	4.59	5.0	92	90 - 110	CV	07/01/2025	11:47	LB136337
CCV41	Mercury	4.57	5.0	91	90 - 110	CV	07/01/2025	12:17	LB136337
CCV42	Mercury	4.66	5.0	93	90 - 110	CV	07/01/2025	12:47	LB136337
CCV43	Mercury	4.95	5.0	99	90 - 110	CV	07/01/2025	13:10	LB136337

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
ICV14	Mercury	4.14	4.0	104	90 - 110	CV	07/02/2025	10:33	LB136352

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
CCV44	Mercury	4.97	5.0	99	90 - 110	CV	07/02/2025	10:44	LB136352
CCV45	Mercury	4.56	5.0	91	90 - 110	CV	07/02/2025	11:35	LB136352
CCV46	Mercury	4.83	5.0	97	90 - 110	CV	07/02/2025	12:37	LB136352
CCV47	Mercury	4.94	5.0	99	90 - 110	CV	07/02/2025	13:18	LB136352

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	Aluminum	7680	8000	96	90 - 110	P	07/03/2025	12:13	LB136371
	Antimony	4150	4000	104	90 - 110	P	07/03/2025	12:13	LB136371
	Arsenic	4040	4000	101	90 - 110	P	07/03/2025	12:13	LB136371
	Barium	7550	8000	94	90 - 110	P	07/03/2025	12:13	LB136371
	Beryllium	189	200	94	90 - 110	P	07/03/2025	12:13	LB136371
	Cadmium	2020	2000	101	90 - 110	P	07/03/2025	12:13	LB136371
	Calcium	19000	20000	95	90 - 110	P	07/03/2025	12:13	LB136371
	Chromium	777	800	97	90 - 110	P	07/03/2025	12:13	LB136371
	Cobalt	2000	2000	100	90 - 110	P	07/03/2025	12:13	LB136371
	Copper	1010	1000	101	90 - 110	P	07/03/2025	12:13	LB136371
	Iron	3740	4000	94	90 - 110	P	07/03/2025	12:13	LB136371
	Lead	3950	4000	99	90 - 110	P	07/03/2025	12:13	LB136371
	Magnesium	19000	20000	95	90 - 110	P	07/03/2025	12:13	LB136371
	Manganese	1920	2000	96	90 - 110	P	07/03/2025	12:13	LB136371
	Nickel	1990	2000	100	90 - 110	P	07/03/2025	12:13	LB136371
	Potassium	18800	20000	94	90 - 110	P	07/03/2025	12:13	LB136371
	Selenium	4090	4000	102	90 - 110	P	07/03/2025	12:13	LB136371
	Silver	957	1000	96	90 - 110	P	07/03/2025	12:13	LB136371
	Sodium	19000	20000	95	90 - 110	P	07/03/2025	12:13	LB136371
	Thallium	3870	4000	97	90 - 110	P	07/03/2025	12:13	LB136371
	Vanadium	1920	2000	96	90 - 110	P	07/03/2025	12:13	LB136371
	Zinc	1910	2000	96	90 - 110	P	07/03/2025	12:13	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	Aluminum	96.3	100	96	80 - 120	P	07/03/2025	12:17	LB136371
	Antimony	51.7	50.0	104	80 - 120	P	07/03/2025	12:17	LB136371
	Arsenic	19.9	20.0	99	80 - 120	P	07/03/2025	12:17	LB136371
	Barium	81.5	100	82	80 - 120	P	07/03/2025	12:17	LB136371
	Beryllium	5.83	6.0	97	80 - 120	P	07/03/2025	12:17	LB136371
	Cadmium	5.43	6.0	91	80 - 120	P	07/03/2025	12:17	LB136371
	Calcium	1940	2000	97	80 - 120	P	07/03/2025	12:17	LB136371
	Chromium	10.5	10.0	105	80 - 120	P	07/03/2025	12:17	LB136371
	Cobalt	29.1	30.0	97	80 - 120	P	07/03/2025	12:17	LB136371
	Copper	20.7	20.0	104	80 - 120	P	07/03/2025	12:17	LB136371
	Iron	106	100	106	80 - 120	P	07/03/2025	12:17	LB136371
	Lead	10.4	12.0	87	80 - 120	P	07/03/2025	12:17	LB136371
	Magnesium	2010	2000	101	80 - 120	P	07/03/2025	12:17	LB136371
	Manganese	20.7	20.0	103	80 - 120	P	07/03/2025	12:17	LB136371
	Nickel	39.9	40.0	100	80 - 120	P	07/03/2025	12:17	LB136371
	Potassium	1870	2000	94	80 - 120	P	07/03/2025	12:17	LB136371
	Selenium	22.6	20.0	113	80 - 120	P	07/03/2025	12:17	LB136371
	Silver	9.90	10.0	99	80 - 120	P	07/03/2025	12:17	LB136371
	Sodium	1960	2000	98	80 - 120	P	07/03/2025	12:17	LB136371
	Thallium	40.9	40.0	102	80 - 120	P	07/03/2025	12:17	LB136371
	Vanadium	38.3	40.0	96	80 - 120	P	07/03/2025	12:17	LB136371
	Zinc	40.6	40.0	102	80 - 120	P	07/03/2025	12:17	LB136371

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	Aluminum	9790	10000	98	90 - 110	P	07/03/2025	13:23	LB136371
	Antimony	5110	5000	102	90 - 110	P	07/03/2025	13:23	LB136371
	Arsenic	5100	5000	102	90 - 110	P	07/03/2025	13:23	LB136371
	Barium	9600	10000	96	90 - 110	P	07/03/2025	13:23	LB136371
	Beryllium	236	250	94	90 - 110	P	07/03/2025	13:23	LB136371
	Cadmium	2520	2500	101	90 - 110	P	07/03/2025	13:23	LB136371
	Calcium	24500	25000	98	90 - 110	P	07/03/2025	13:23	LB136371
	Chromium	1010	1000	101	90 - 110	P	07/03/2025	13:23	LB136371
	Cobalt	2500	2500	100	90 - 110	P	07/03/2025	13:23	LB136371
	Copper	1270	1250	101	90 - 110	P	07/03/2025	13:23	LB136371
	Iron	5070	5000	101	90 - 110	P	07/03/2025	13:23	LB136371
	Lead	4970	5000	100	90 - 110	P	07/03/2025	13:23	LB136371
	Magnesium	24200	25000	97	90 - 110	P	07/03/2025	13:23	LB136371
	Manganese	2460	2500	98	90 - 110	P	07/03/2025	13:23	LB136371
	Nickel	2540	2500	102	90 - 110	P	07/03/2025	13:23	LB136371
	Potassium	24600	25000	98	90 - 110	P	07/03/2025	13:23	LB136371
	Selenium	5180	5000	104	90 - 110	P	07/03/2025	13:23	LB136371
	Silver	1210	1250	97	90 - 110	P	07/03/2025	13:23	LB136371
	Sodium	24900	25000	100	90 - 110	P	07/03/2025	13:23	LB136371
	Thallium	4860	5000	97	90 - 110	P	07/03/2025	13:23	LB136371
	Vanadium	2440	2500	98	90 - 110	P	07/03/2025	13:23	LB136371
	Zinc	2450	2500	98	90 - 110	P	07/03/2025	13:23	LB136371
CCV02	Aluminum	9680	10000	97	90 - 110	P	07/03/2025	14:25	LB136371
	Antimony	5120	5000	102	90 - 110	P	07/03/2025	14:25	LB136371
	Arsenic	5040	5000	101	90 - 110	P	07/03/2025	14:25	LB136371
	Barium	9400	10000	94	90 - 110	P	07/03/2025	14:25	LB136371
	Beryllium	232	250	93	90 - 110	P	07/03/2025	14:25	LB136371
	Cadmium	2480	2500	99	90 - 110	P	07/03/2025	14:25	LB136371
	Calcium	23800	25000	95	90 - 110	P	07/03/2025	14:25	LB136371
	Chromium	993	1000	99	90 - 110	P	07/03/2025	14:25	LB136371
	Cobalt	2480	2500	99	90 - 110	P	07/03/2025	14:25	LB136371
	Copper	1260	1250	100	90 - 110	P	07/03/2025	14:25	LB136371
	Iron	4900	5000	98	90 - 110	P	07/03/2025	14:25	LB136371
	Lead	4910	5000	98	90 - 110	P	07/03/2025	14:25	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
CCV02	Magnesium	23600	25000	94	90 - 110	P	07/03/2025	14:25	LB136371
	Manganese	2480	2500	99	90 - 110	P	07/03/2025	14:25	LB136371
	Nickel	2510	2500	100	90 - 110	P	07/03/2025	14:25	LB136371
	Potassium	22500	25000	90	90 - 110	P	07/03/2025	14:25	LB136371
	Selenium	5160	5000	103	90 - 110	P	07/03/2025	14:25	LB136371
	Silver	1200	1250	96	90 - 110	P	07/03/2025	14:25	LB136371
	Sodium	22800	25000	91	90 - 110	P	07/03/2025	14:25	LB136371
	Thallium	5060	5000	101	90 - 110	P	07/03/2025	14:25	LB136371
	Vanadium	2390	2500	96	90 - 110	P	07/03/2025	14:25	LB136371
	Zinc	2420	2500	97	90 - 110	P	07/03/2025	14:25	LB136371
CCV03	Aluminum	9490	10000	95	90 - 110	P	07/03/2025	16:03	LB136371
	Antimony	5070	5000	101	90 - 110	P	07/03/2025	16:03	LB136371
	Arsenic	4930	5000	99	90 - 110	P	07/03/2025	16:03	LB136371
	Barium	9260	10000	93	90 - 110	P	07/03/2025	16:03	LB136371
	Beryllium	243	250	97	90 - 110	P	07/03/2025	16:03	LB136371
	Cadmium	2390	2500	96	90 - 110	P	07/03/2025	16:03	LB136371
	Calcium	23500	25000	94	90 - 110	P	07/03/2025	16:03	LB136371
	Chromium	943	1000	94	90 - 110	P	07/03/2025	16:03	LB136371
	Cobalt	2410	2500	96	90 - 110	P	07/03/2025	16:03	LB136371
	Copper	1220	1250	97	90 - 110	P	07/03/2025	16:03	LB136371
	Iron	4890	5000	98	90 - 110	P	07/03/2025	16:03	LB136371
	Lead	4730	5000	95	90 - 110	P	07/03/2025	16:03	LB136371
	Magnesium	22900	25000	92	90 - 110	P	07/03/2025	16:03	LB136371
	Manganese	2440	2500	98	90 - 110	P	07/03/2025	16:03	LB136371
	Nickel	2410	2500	96	90 - 110	P	07/03/2025	16:03	LB136371
	Potassium	24300	25000	97	90 - 110	P	07/03/2025	16:03	LB136371
	Selenium	5080	5000	102	90 - 110	P	07/03/2025	16:03	LB136371
	Silver	1200	1250	96	90 - 110	P	07/03/2025	16:03	LB136371
	Sodium	25100	25000	100	90 - 110	P	07/03/2025	16:03	LB136371
	Thallium	5350	5000	107	90 - 110	P	07/03/2025	16:03	LB136371
	Vanadium	2340	2500	94	90 - 110	P	07/03/2025	16:03	LB136371
	Zinc	2470	2500	99	90 - 110	P	07/03/2025	16:03	LB136371
CCV04	Aluminum	9520	10000	95	90 - 110	P	07/03/2025	16:58	LB136371
	Antimony	5140	5000	103	90 - 110	P	07/03/2025	16:58	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
CCV04	Arsenic	5050	5000	101	90 - 110	P	07/03/2025	16:58	LB136371
	Barium	9300	10000	93	90 - 110	P	07/03/2025	16:58	LB136371
	Beryllium	245	250	98	90 - 110	P	07/03/2025	16:58	LB136371
	Cadmium	2440	2500	98	90 - 110	P	07/03/2025	16:58	LB136371
	Calcium	23600	25000	94	90 - 110	P	07/03/2025	16:58	LB136371
	Chromium	947	1000	95	90 - 110	P	07/03/2025	16:58	LB136371
	Cobalt	2440	2500	97	90 - 110	P	07/03/2025	16:58	LB136371
	Copper	1240	1250	99	90 - 110	P	07/03/2025	16:58	LB136371
	Iron	4970	5000	99	90 - 110	P	07/03/2025	16:58	LB136371
	Lead	4800	5000	96	90 - 110	P	07/03/2025	16:58	LB136371
	Magnesium	23100	25000	92	90 - 110	P	07/03/2025	16:58	LB136371
	Manganese	2440	2500	97	90 - 110	P	07/03/2025	16:58	LB136371
	Nickel	2440	2500	98	90 - 110	P	07/03/2025	16:58	LB136371
	Potassium	25200	25000	101	90 - 110	P	07/03/2025	16:58	LB136371
	Selenium	5210	5000	104	90 - 110	P	07/03/2025	16:58	LB136371
	Silver	1210	1250	97	90 - 110	P	07/03/2025	16:58	LB136371
	Sodium	26100	25000	104	90 - 110	P	07/03/2025	16:58	LB136371
	Thallium	5260	5000	105	90 - 110	P	07/03/2025	16:58	LB136371
	Vanadium	2340	2500	94	90 - 110	P	07/03/2025	16:58	LB136371
	Zinc	2490	2500	100	90 - 110	P	07/03/2025	16:58	LB136371
CCV05	Aluminum	9700	10000	97	90 - 110	P	07/03/2025	17:28	LB136371
	Antimony	5240	5000	105	90 - 110	P	07/03/2025	17:28	LB136371
	Arsenic	5130	5000	102	90 - 110	P	07/03/2025	17:28	LB136371
	Barium	9380	10000	94	90 - 110	P	07/03/2025	17:28	LB136371
	Beryllium	252	250	101	90 - 110	P	07/03/2025	17:28	LB136371
	Cadmium	2490	2500	100	90 - 110	P	07/03/2025	17:28	LB136371
	Calcium	24000	25000	96	90 - 110	P	07/03/2025	17:28	LB136371
	Chromium	950	1000	95	90 - 110	P	07/03/2025	17:28	LB136371
	Cobalt	2490	2500	100	90 - 110	P	07/03/2025	17:28	LB136371
	Copper	1260	1250	101	90 - 110	P	07/03/2025	17:28	LB136371
	Iron	4800	5000	96	90 - 110	P	07/03/2025	17:28	LB136371
	Lead	4910	5000	98	90 - 110	P	07/03/2025	17:28	LB136371
	Magnesium	23400	25000	94	90 - 110	P	07/03/2025	17:28	LB136371
	Manganese	2480	2500	99	90 - 110	P	07/03/2025	17:28	LB136371

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	Nickel	2500	2500	100	90 - 110	P	07/03/2025	17:28	LB136371
	Potassium	24200	25000	97	90 - 110	P	07/03/2025	17:28	LB136371
	Selenium	5280	5000	106	90 - 110	P	07/03/2025	17:28	LB136371
	Silver	1210	1250	97	90 - 110	P	07/03/2025	17:28	LB136371
	Sodium	25000	25000	100	90 - 110	P	07/03/2025	17:28	LB136371
	Thallium	5280	5000	106	90 - 110	P	07/03/2025	17:28	LB136371
	Vanadium	2380	2500	95	90 - 110	P	07/03/2025	17:28	LB136371
	Zinc	2480	2500	99	90 - 110	P	07/03/2025	17:28	LB136371

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Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	0.22	0.2	112	70 - 130	CV	07/01/2025	11:52	LB136337
CRA	Mercury	0.19	0.2	96	70 - 130	CV	07/02/2025	10:54	LB136352
CRI01	Aluminum	92.4	100	92	65 - 135	P	07/03/2025	12:26	LB136371
	Antimony	53.6	50.0	107	65 - 135	P	07/03/2025	12:26	LB136371
	Arsenic	22.4	20.0	112	65 - 135	P	07/03/2025	12:26	LB136371
	Barium	80.0	100	80	65 - 135	P	07/03/2025	12:26	LB136371
	Beryllium	5.80	6.0	97	65 - 135	P	07/03/2025	12:26	LB136371
	Cadmium	6.26	6.0	104	65 - 135	P	07/03/2025	12:26	LB136371
	Calcium	1950	2000	98	65 - 135	P	07/03/2025	12:26	LB136371
	Chromium	10.6	10.0	106	65 - 135	P	07/03/2025	12:26	LB136371
	Cobalt	29.7	30.0	99	65 - 135	P	07/03/2025	12:26	LB136371
	Copper	21.0	20.0	105	65 - 135	P	07/03/2025	12:26	LB136371
	Iron	108	100	108	65 - 135	P	07/03/2025	12:26	LB136371
	Lead	12.8	12.0	106	65 - 135	P	07/03/2025	12:26	LB136371
	Magnesium	2020	2000	101	65 - 135	P	07/03/2025	12:26	LB136371
	Manganese	20.4	20.0	102	65 - 135	P	07/03/2025	12:26	LB136371
	Nickel	40.5	40.0	101	65 - 135	P	07/03/2025	12:26	LB136371
	Potassium	1880	2000	94	65 - 135	P	07/03/2025	12:26	LB136371
	Selenium	23.6	20.0	118	65 - 135	P	07/03/2025	12:26	LB136371
	Silver	10.5	10.0	105	65 - 135	P	07/03/2025	12:26	LB136371
	Sodium	2010	2000	101	65 - 135	P	07/03/2025	12:26	LB136371
	Thallium	43.2	40.0	108	65 - 135	P	07/03/2025	12:26	LB136371
	Vanadium	38.8	40.0	97	65 - 135	P	07/03/2025	12:26	LB136371
	Zinc	44.9	40.0	112	65 - 135	P	07/03/2025	12:26	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB13	Mercury	0.076	+/-0.2	U	0.20	CV	07/01/2025	11:45	LB136337

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB40	Mercury	0.076	+/-0.2	U	0.20	CV	07/01/2025	11:49	LB136337
CCB41	Mercury	0.076	+/-0.2	U	0.20	CV	07/01/2025	12:19	LB136337
CCB42	Mercury	0.076	+/-0.2	U	0.20	CV	07/01/2025	12:49	LB136337
CCB43	Mercury	0.076	+/-0.2	U	0.20	CV	07/01/2025	13:13	LB136337

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB14	Mercury	0.076	+/-0.2	U	0.20	CV	07/02/2025	10:38	LB136352

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB44	Mercury	0.076	+/-0.2	U	0.20	CV	07/02/2025	10:49	LB136352
CCB45	Mercury	0.076	+/-0.2	U	0.20	CV	07/02/2025	11:40	LB136352
CCB46	Mercury	0.076	+/-0.2	U	0.20	CV	07/02/2025	12:42	LB136352
CCB47	Mercury	0.076	+/-0.2	U	0.20	CV	07/02/2025	13:23	LB136352

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	07/03/2025	12:21	LB136371
	Antimony	6.76	+/-25	U	50.0	P	07/03/2025	12:21	LB136371
	Arsenic	5.12	+/-10	U	20.0	P	07/03/2025	12:21	LB136371
	Barium	14.6	+/-50	U	100	P	07/03/2025	12:21	LB136371
	Beryllium	0.56	+/-3	U	6.00	P	07/03/2025	12:21	LB136371
	Cadmium	0.50	+/-3	U	6.00	P	07/03/2025	12:21	LB136371
	Calcium	234	+/-1000	U	2000	P	07/03/2025	12:21	LB136371
	Chromium	2.12	+/-5	U	10.0	P	07/03/2025	12:21	LB136371
	Cobalt	2.26	+/-15	U	30.0	P	07/03/2025	12:21	LB136371
	Copper	4.60	+/-10	U	20.0	P	07/03/2025	12:21	LB136371
	Iron	23.4	+/-50	U	100	P	07/03/2025	12:21	LB136371
	Lead	2.30	+/-6	U	12.0	P	07/03/2025	12:21	LB136371
	Magnesium	244	+/-1000	U	2000	P	07/03/2025	12:21	LB136371
	Manganese	5.94	+/-10	U	20.0	P	07/03/2025	12:21	LB136371
	Nickel	3.06	+/-20	U	40.0	P	07/03/2025	12:21	LB136371
	Potassium	918	+/-1000	U	2000	P	07/03/2025	12:21	LB136371
	Selenium	9.64	+/-10	U	20.0	P	07/03/2025	12:21	LB136371
	Silver	1.62	+/-5	U	10.0	P	07/03/2025	12:21	LB136371
	Sodium	868	+/-1000	U	2000	P	07/03/2025	12:21	LB136371
	Thallium	4.38	+/-20	U	40.0	P	07/03/2025	12:21	LB136371
	Vanadium	6.26	+/-20	U	40.0	P	07/03/2025	12:21	LB136371
	Zinc	16.7	+/-20	U	40.0	P	07/03/2025	12:21	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	07/03/2025	13:27	LB136371
	Antimony	6.76	+/-25	U	50.0	P	07/03/2025	13:27	LB136371
	Arsenic	5.12	+/-10	U	20.0	P	07/03/2025	13:27	LB136371
	Barium	14.6	+/-50	U	100	P	07/03/2025	13:27	LB136371
	Beryllium	0.56	+/-3	U	6.00	P	07/03/2025	13:27	LB136371
	Cadmium	0.50	+/-3	U	6.00	P	07/03/2025	13:27	LB136371
	Calcium	234	+/-1000	U	2000	P	07/03/2025	13:27	LB136371
	Chromium	2.12	+/-5	U	10.0	P	07/03/2025	13:27	LB136371
	Cobalt	2.26	+/-15	U	30.0	P	07/03/2025	13:27	LB136371
	Copper	4.60	+/-10	U	20.0	P	07/03/2025	13:27	LB136371
	Iron	23.4	+/-50	U	100	P	07/03/2025	13:27	LB136371
	Lead	2.30	+/-6	U	12.0	P	07/03/2025	13:27	LB136371
	Magnesium	244	+/-1000	U	2000	P	07/03/2025	13:27	LB136371
	Manganese	5.94	+/-10	U	20.0	P	07/03/2025	13:27	LB136371
	Nickel	3.06	+/-20	U	40.0	P	07/03/2025	13:27	LB136371
	Potassium	918	+/-1000	U	2000	P	07/03/2025	13:27	LB136371
	Selenium	9.64	+/-10	U	20.0	P	07/03/2025	13:27	LB136371
	Silver	1.62	+/-5	U	10.0	P	07/03/2025	13:27	LB136371
	Sodium	868	+/-1000	U	2000	P	07/03/2025	13:27	LB136371
	Thallium	4.38	+/-20	U	40.0	P	07/03/2025	13:27	LB136371
	Vanadium	6.26	+/-20	U	40.0	P	07/03/2025	13:27	LB136371
	Zinc	16.7	+/-20	U	40.0	P	07/03/2025	13:27	LB136371
CCB02	Aluminum	11.3	+/-50	U	100	P	07/03/2025	14:55	LB136371
	Antimony	6.76	+/-25	U	50.0	P	07/03/2025	14:55	LB136371
	Arsenic	5.12	+/-10	U	20.0	P	07/03/2025	14:55	LB136371
	Barium	14.6	+/-50	U	100	P	07/03/2025	14:55	LB136371
	Beryllium	0.56	+/-3	U	6.00	P	07/03/2025	14:55	LB136371
	Cadmium	0.50	+/-3	U	6.00	P	07/03/2025	14:55	LB136371
	Calcium	234	+/-1000	U	2000	P	07/03/2025	14:55	LB136371
	Chromium	2.12	+/-5	U	10.0	P	07/03/2025	14:55	LB136371
	Cobalt	2.26	+/-15	U	30.0	P	07/03/2025	14:55	LB136371
	Copper	4.60	+/-10	U	20.0	P	07/03/2025	14:55	LB136371
	Iron	23.4	+/-50	U	100	P	07/03/2025	14:55	LB136371
	Lead	2.30	+/-6	U	12.0	P	07/03/2025	14:55	LB136371
	Magnesium	244	+/-1000	U	2000	P	07/03/2025	14:55	LB136371
	Manganese	5.94	+/-10	U	20.0	P	07/03/2025	14:55	LB136371
	Nickel	3.06	+/-20	U	40.0	P	07/03/2025	14:55	LB136371
	Potassium	918	+/-1000	U	2000	P	07/03/2025	14:55	LB136371
	Selenium	9.64	+/-10	U	20.0	P	07/03/2025	14:55	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	07/03/2025	14:55	LB136371
	Sodium	868	+/-1000	U	2000	P	07/03/2025	14:55	LB136371
	Thallium	4.38	+/-20	U	40.0	P	07/03/2025	14:55	LB136371
	Vanadium	6.26	+/-20	U	40.0	P	07/03/2025	14:55	LB136371
	Zinc	16.7	+/-20	U	40.0	P	07/03/2025	14:55	LB136371
CCB03	Aluminum	11.3	+/-50	U	100	P	07/03/2025	16:08	LB136371
	Antimony	6.76	+/-25	U	50.0	P	07/03/2025	16:08	LB136371
	Arsenic	5.12	+/-10	U	20.0	P	07/03/2025	16:08	LB136371
	Barium	14.6	+/-50	U	100	P	07/03/2025	16:08	LB136371
	Beryllium	0.56	+/-3	U	6.00	P	07/03/2025	16:08	LB136371
	Cadmium	0.50	+/-3	U	6.00	P	07/03/2025	16:08	LB136371
	Calcium	234	+/-1000	U	2000	P	07/03/2025	16:08	LB136371
	Chromium	2.12	+/-5	U	10.0	P	07/03/2025	16:08	LB136371
	Cobalt	2.26	+/-15	U	30.0	P	07/03/2025	16:08	LB136371
	Copper	4.60	+/-10	U	20.0	P	07/03/2025	16:08	LB136371
	Iron	23.4	+/-50	U	100	P	07/03/2025	16:08	LB136371
	Lead	2.30	+/-6	U	12.0	P	07/03/2025	16:08	LB136371
	Magnesium	244	+/-1000	U	2000	P	07/03/2025	16:08	LB136371
	Manganese	5.94	+/-10	U	20.0	P	07/03/2025	16:08	LB136371
	Nickel	3.06	+/-20	U	40.0	P	07/03/2025	16:08	LB136371
	Potassium	918	+/-1000	U	2000	P	07/03/2025	16:08	LB136371
	Selenium	9.64	+/-10	U	20.0	P	07/03/2025	16:08	LB136371
	Silver	1.62	+/-5	U	10.0	P	07/03/2025	16:08	LB136371
	Sodium	868	+/-1000	U	2000	P	07/03/2025	16:08	LB136371
	Thallium	4.38	+/-20	U	40.0	P	07/03/2025	16:08	LB136371
	Vanadium	6.26	+/-20	U	40.0	P	07/03/2025	16:08	LB136371
	Zinc	16.7	+/-20	U	40.0	P	07/03/2025	16:08	LB136371
CCB04	Aluminum	11.3	+/-50	U	100	P	07/03/2025	17:02	LB136371
	Antimony	6.76	+/-25	U	50.0	P	07/03/2025	17:02	LB136371
	Arsenic	5.12	+/-10	U	20.0	P	07/03/2025	17:02	LB136371
	Barium	14.6	+/-50	U	100	P	07/03/2025	17:02	LB136371
	Beryllium	0.56	+/-3	U	6.00	P	07/03/2025	17:02	LB136371
	Cadmium	0.50	+/-3	U	6.00	P	07/03/2025	17:02	LB136371
	Calcium	234	+/-1000	U	2000	P	07/03/2025	17:02	LB136371
	Chromium	2.12	+/-5	U	10.0	P	07/03/2025	17:02	LB136371
	Cobalt	2.26	+/-15	U	30.0	P	07/03/2025	17:02	LB136371
	Copper	4.60	+/-10	U	20.0	P	07/03/2025	17:02	LB136371
	Iron	23.4	+/-50	U	100	P	07/03/2025	17:02	LB136371
	Lead	2.30	+/-6	U	12.0	P	07/03/2025	17:02	LB136371

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	07/03/2025	17:02	LB136371
	Manganese	5.94	+/-10	U	20.0	P	07/03/2025	17:02	LB136371
	Nickel	3.06	+/-20	U	40.0	P	07/03/2025	17:02	LB136371
	Potassium	918	+/-1000	U	2000	P	07/03/2025	17:02	LB136371
	Selenium	9.64	+/-10	U	20.0	P	07/03/2025	17:02	LB136371
	Silver	1.62	+/-5	U	10.0	P	07/03/2025	17:02	LB136371
	Sodium	868	+/-1000	U	2000	P	07/03/2025	17:02	LB136371
	Thallium	4.38	+/-20	U	40.0	P	07/03/2025	17:02	LB136371
	Vanadium	6.26	+/-20	U	40.0	P	07/03/2025	17:02	LB136371
	Zinc	16.7	+/-20	U	40.0	P	07/03/2025	17:02	LB136371
CCB05	Aluminum	11.3	+/-50	U	100	P	07/03/2025	17:32	LB136371
	Antimony	6.76	+/-25	U	50.0	P	07/03/2025	17:32	LB136371
	Arsenic	5.12	+/-10	U	20.0	P	07/03/2025	17:32	LB136371
	Barium	14.6	+/-50	U	100	P	07/03/2025	17:32	LB136371
	Beryllium	0.56	+/-3	U	6.00	P	07/03/2025	17:32	LB136371
	Cadmium	0.50	+/-3	U	6.00	P	07/03/2025	17:32	LB136371
	Calcium	234	+/-1000	U	2000	P	07/03/2025	17:32	LB136371
	Chromium	2.12	+/-5	U	10.0	P	07/03/2025	17:32	LB136371
	Cobalt	2.26	+/-15	U	30.0	P	07/03/2025	17:32	LB136371
	Copper	4.60	+/-10	U	20.0	P	07/03/2025	17:32	LB136371
	Iron	23.4	+/-50	U	100	P	07/03/2025	17:32	LB136371
	Lead	2.30	+/-6	U	12.0	P	07/03/2025	17:32	LB136371
	Magnesium	244	+/-1000	U	2000	P	07/03/2025	17:32	LB136371
	Manganese	5.94	+/-10	U	20.0	P	07/03/2025	17:32	LB136371
	Nickel	3.06	+/-20	U	40.0	P	07/03/2025	17:32	LB136371
	Potassium	918	+/-1000	U	2000	P	07/03/2025	17:32	LB136371
	Selenium	9.64	+/-10	U	20.0	P	07/03/2025	17:32	LB136371
	Silver	1.62	+/-5	U	10.0	P	07/03/2025	17:32	LB136371
	Sodium	868	+/-1000	U	2000	P	07/03/2025	17:32	LB136371
	Thallium	4.38	+/-20	U	40.0	P	07/03/2025	17:32	LB136371
	Vanadium	6.26	+/-20	U	40.0	P	07/03/2025	17:32	LB136371
	Zinc	16.7	+/-20	U	40.0	P	07/03/2025	17:32	LB136371

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168683BL		**WATER**		**Batch Number:**	**PB168683**		**Prep Date:**	**07/01/2025**	
	Mercury	0.076	<0.2	U	0.20	CV	07/01/2025	12:31	LB136337

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168688BL		**SOLID**		**Batch Number:**	**PB168688**		**Prep Date:**	**07/01/2025**	
	Mercury	0.0070	<0.013	U	0.013	CV	07/02/2025	11:12	LB136352

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Metals
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PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168677BL		**WATER**		**Batch Number:**	**PB168677**		**Prep Date:**	**07/01/2025**	
	Aluminum	5.67	<25	U	50.0	P	07/03/2025	16:20	LB136371
	Antimony	3.38	<12.5	U	25.0	P	07/03/2025	16:20	LB136371
	Arsenic	2.56	<5	U	10.0	P	07/03/2025	16:20	LB136371
	Barium	7.28	<25	U	50.0	P	07/03/2025	16:20	LB136371
	Beryllium	0.28	<1.5	U	3.00	P	07/03/2025	16:20	LB136371
	Cadmium	0.25	<1.5	U	3.00	P	07/03/2025	16:20	LB136371
	Calcium	117	<500	U	1000	P	07/03/2025	16:20	LB136371
	Chromium	1.06	<2.5	U	5.00	P	07/03/2025	16:20	LB136371
	Cobalt	1.13	<7.5	U	15.0	P	07/03/2025	16:20	LB136371
	Copper	2.30	<5	U	10.0	P	07/03/2025	16:20	LB136371
	Iron	11.7	<25	U	50.0	P	07/03/2025	16:20	LB136371
	Lead	1.15	<3	U	6.00	P	07/03/2025	16:20	LB136371
	Magnesium	122	<500	U	1000	P	07/03/2025	16:20	LB136371
	Manganese	2.97	<5	U	10.0	P	07/03/2025	16:20	LB136371
	Nickel	1.53	<10	U	20.0	P	07/03/2025	16:20	LB136371
	Potassium	459	<500	U	1000	P	07/03/2025	16:20	LB136371
	Selenium	4.82	<5	U	10.0	P	07/03/2025	16:20	LB136371
	Silver	0.81	<2.5	U	5.00	P	07/03/2025	16:20	LB136371
	Sodium	434	<500	U	1000	P	07/03/2025	16:20	LB136371
	Thallium	2.19	<10	U	20.0	P	07/03/2025	16:20	LB136371
	Vanadium	3.13	<10	U	20.0	P	07/03/2025	16:20	LB136371
	Zinc	8.33	<10	U	20.0	P	07/03/2025	16:20	LB136371

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168678BL		**SOLID**		**Batch Number:**	**PB168678**		**Prep Date:**	**07/01/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	07/03/2025	16:12	LB136371
	Antimony	0.22	<1.25	U	2.50	P	07/03/2025	16:12	LB136371
	Arsenic	0.19	<0.5	U	1.00	P	07/03/2025	16:12	LB136371
	Barium	0.73	<2.5	U	5.00	P	07/03/2025	16:12	LB136371
	Beryllium	0.025	<0.15	U	0.30	P	07/03/2025	16:12	LB136371
	Cadmium	0.024	<0.15	U	0.30	P	07/03/2025	16:12	LB136371
	Calcium	11.1	<50	U	100	P	07/03/2025	16:12	LB136371
	Chromium	0.047	<0.25	U	0.50	P	07/03/2025	16:12	LB136371
	Cobalt	0.10	<0.75	U	1.50	P	07/03/2025	16:12	LB136371
	Copper	0.22	<0.5	U	1.00	P	07/03/2025	16:12	LB136371
	Iron	3.99	<2.5	U	5.00	P	07/03/2025	16:12	LB136371
	Lead	0.13	<0.3	U	0.60	P	07/03/2025	16:12	LB136371
	Magnesium	12.0	<50	U	100	P	07/03/2025	16:12	LB136371
	Manganese	0.14	<0.5	U	1.00	P	07/03/2025	16:12	LB136371
	Nickel	0.13	<1	U	2.00	P	07/03/2025	16:12	LB136371

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Instrument: P4

Potassium	27.7	<50	U	100	P	07/03/2025	16:12	LB136371
Selenium	0.26	<0.5	U	1.00	P	07/03/2025	16:12	LB136371
Silver	0.12	<0.25	U	0.50	P	07/03/2025	16:12	LB136371
Sodium	17.8	<50	U	100	P	07/03/2025	16:12	LB136371
Thallium	0.23	<1	U	2.00	P	07/03/2025	16:12	LB136371
Vanadium	0.25	<1	U	2.00	P	07/03/2025	16:12	LB136371
Zinc	0.23	<1	U	2.00	P	07/03/2025	16:12	LB136371

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	Aluminum	237000	255000	93	216000	294000	07/03/2025	12:30	LB136371
	Antimony	0.85			-50	50	07/03/2025	12:30	LB136371
	Arsenic	-1.82			-20	20	07/03/2025	12:30	LB136371
	Barium	-23.4	6.0	390	-94	106	07/03/2025	12:30	LB136371
	Beryllium	0.55			-6	6	07/03/2025	12:30	LB136371
	Cadmium	-1.03	1.0	103	-5	7	07/03/2025	12:30	LB136371
	Calcium	225000	245000	92	208000	282000	07/03/2025	12:30	LB136371
	Chromium	57.2	52.0	110	42	62	07/03/2025	12:30	LB136371
	Cobalt	-0.27			-30	30	07/03/2025	12:30	LB136371
	Copper	17.1	2.0	855	-18	22	07/03/2025	12:30	LB136371
	Iron	97000	101000	96	85600	116500	07/03/2025	12:30	LB136371
	Lead	-8.04			-12	12	07/03/2025	12:30	LB136371
	Magnesium	236000	255000	92	216000	294000	07/03/2025	12:30	LB136371
	Manganese	4.57	7.0	65	-13	27	07/03/2025	12:30	LB136371
	Nickel	11.4	2.0	570	-38	42	07/03/2025	12:30	LB136371
	Potassium	-36.6			0	0	07/03/2025	12:30	LB136371
	Selenium	8.32			-20	20	07/03/2025	12:30	LB136371
	Silver	-8.71			-10	10	07/03/2025	12:30	LB136371
	Sodium	55.2			0	0	07/03/2025	12:30	LB136371
	Thallium	0.72			-40	40	07/03/2025	12:30	LB136371
	Vanadium	0.26			-40	40	07/03/2025	12:30	LB136371
	Zinc	1.18			-40	40	07/03/2025	12:30	LB136371
ICSAB01	Aluminum	243000	247000	98	209000	285000	07/03/2025	12:42	LB136371
	Antimony	610	618	99	525	711	07/03/2025	12:42	LB136371
	Arsenic	102	104	98	88.4	120	07/03/2025	12:42	LB136371
	Barium	439	537	82	437	637	07/03/2025	12:42	LB136371
	Beryllium	460	495	93	420	570	07/03/2025	12:42	LB136371
	Cadmium	974	972	100	826	1120	07/03/2025	12:42	LB136371
	Calcium	232000	235000	99	199000	271000	07/03/2025	12:42	LB136371
	Chromium	558	542	103	460	624	07/03/2025	12:42	LB136371
	Cobalt	495	476	104	404	548	07/03/2025	12:42	LB136371
	Copper	490	511	96	434	588	07/03/2025	12:42	LB136371
	Iron	104000	99300	105	84400	114500	07/03/2025	12:42	LB136371
	Lead	40.3	49.0	82	37	61	07/03/2025	12:42	LB136371
	Magnesium	243000	248000	98	210000	286000	07/03/2025	12:42	LB136371
	Manganese	480	507	95	430	584	07/03/2025	12:42	LB136371
	Nickel	994	954	104	810	1100	07/03/2025	12:42	LB136371
	Potassium	-42.7			0	0	07/03/2025	12:42	LB136371
	Selenium	58.6	46.0	127	26	66	07/03/2025	12:42	LB136371
	Silver	229	201	114	170	232	07/03/2025	12:42	LB136371
	Sodium	61.0			0	0	07/03/2025	12:42	LB136371
	Thallium	94.7	108	88	68	148	07/03/2025	12:42	LB136371

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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	Vanadium	463	491	94	417	565	07/03/2025	12:42	LB136371
	Zinc	1040	952	109	809	1095	07/03/2025	12:42	LB136371

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2458

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2458-03 **client id:** TP-68MS

Percent Solids for Sample: 92.3 **Spiked ID:** Q2458-03MS **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5750		4030		95.5	1805		P
Antimony	mg/Kg	75 - 125	16.5		2.46	U	38.2	43	N	P
Arsenic	mg/Kg	75 - 125	37.4		1.61		38.2	94		P
Barium	mg/Kg	75 - 125	16.9		7.39		9.5	100		P
Beryllium	mg/Kg	75 - 125	7.92		0.13	J	9.5	82		P
Cadmium	mg/Kg	75 - 125	8.79		0.30	U	9.5	92		P
Calcium	mg/Kg	75 - 125	2950		1990		47.7	2007		P
Chromium	mg/Kg	75 - 125	28.0		9.01		19.1	99		P
Cobalt	mg/Kg	75 - 125	15.3		4.51		9.5	114		P
Copper	mg/Kg	75 - 125	63.7		45.1		14.3	130	N	P
Iron	mg/Kg	75 - 125	10700		9290		140	1022		P
Lead	mg/Kg	75 - 125	50.1		5.32		47.7	94		P
Magnesium	mg/Kg	75 - 125	2760		2200		95.5	584		P
Manganese	mg/Kg	75 - 125	84.1		65.0		9.5	201		P
Nickel	mg/Kg	75 - 125	36.2		9.84		23.9	110		P
Potassium	mg/Kg	75 - 125	1130		521		480	127	N	P
Selenium	mg/Kg	75 - 125	91.6		2.38		95.5	93		P
Silver	mg/Kg	75 - 125	3.69		0.37	J	3.6	92		P
Sodium	mg/Kg	75 - 125	953		582		140	265		P
Thallium	mg/Kg	75 - 125	97.8		1.97	U	95.5	102		P
Vanadium	mg/Kg	75 - 125	40.6		20.1		14.3	143	N	P
Zinc	mg/Kg	75 - 125	25.2		12.9		9.5	129	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2458

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2458-03 **client id:** TP-68MSD

Percent Solids for Sample: 92.3 **Spiked ID:** Q2458-03MSD **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6080		4030		89.9	2277		P
Antimony	mg/Kg	75 - 125	15.4		2.46	U	36.0	43	N	P
Arsenic	mg/Kg	75 - 125	35.7		1.61		36.0	95		P
Barium	mg/Kg	75 - 125	17.0		7.39		9.0	107		P
Beryllium	mg/Kg	75 - 125	7.42		0.13	J	9.0	81		P
Cadmium	mg/Kg	75 - 125	8.21		0.30	U	9.0	91		P
Calcium	mg/Kg	75 - 125	3030		1990		45.0	2307		P
Chromium	mg/Kg	75 - 125	27.2		9.01		18.0	101		P
Cobalt	mg/Kg	75 - 125	15.4		4.51		9.0	121		P
Copper	mg/Kg	75 - 125	92.9		45.1		13.5	354	N	P
Iron	mg/Kg	75 - 125	12000		9290		130	2054		P
Lead	mg/Kg	75 - 125	48.4		5.32		45.0	96		P
Magnesium	mg/Kg	75 - 125	3100		2200		89.9	1007		P
Manganese	mg/Kg	75 - 125	91.0		65.0		9.0	290		P
Nickel	mg/Kg	75 - 125	36.8		9.84		22.5	120		P
Potassium	mg/Kg	75 - 125	1180		521		450	146	N	P
Selenium	mg/Kg	75 - 125	87.8		2.38		89.9	95		P
Silver	mg/Kg	75 - 125	3.63		0.37	J	3.4	96		P
Sodium	mg/Kg	75 - 125	1030		582		130	345		P
Thallium	mg/Kg	75 - 125	90.1		1.97	U	89.9	100		P
Vanadium	mg/Kg	75 - 125	40.7		20.1		13.5	152	N	P
Zinc	mg/Kg	75 - 125	28.9		12.9		9.0	177	N	P

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2458

contract: CAMP02 **lab code:** ACE

matrix: Water **sample id:** Q2463-01 **client id:** TW-WTS-11MS

Percent Solids for Sample: NA **Spiked ID:** Q2463-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	4620		3660		1000	96		P
Antimony	ug/L	75 - 125	425		25.0	U	400	106		P
Arsenic	ug/L	75 - 125	415		10.0	U	400	104		P
Barium	ug/L	75 - 125	122		36.1	J	100	86		P
Beryllium	ug/L	75 - 125	85.4		3.00	U	100	85		P
Cadmium	ug/L	75 - 125	97.4		3.00	U	100	97		P
Calcium	ug/L	75 - 125	50300		49700		500	120		P
Chromium	ug/L	75 - 125	192		1.87	J	200	95		P
Cobalt	ug/L	75 - 125	102		1.54	J	100	100		P
Copper	ug/L	75 - 125	171		21.7		150	99		P
Iron	ug/L	75 - 125	10800		9630		1500	77		P
Lead	ug/L	75 - 125	466		5.99	J	500	92		P
Magnesium	ug/L	75 - 125	2320		1450		1000	87		P
Manganese	ug/L	75 - 125	121		22.5		100	98		P
Mercury	ug/L	75 - 125	3.24		0.19	J	4.0	76		CV
Nickel	ug/L	75 - 125	264		15.0	J	250	100		P
Potassium	ug/L	75 - 125	244000		248000		5000	-95		P
Selenium	ug/L	75 - 125	1060		5.02	J	1000	106		P
Silver	ug/L	75 - 125	21.1		5.00	U	37.5	56	N	P
Sodium	ug/L	75 - 125	172000		172000		1500	-45		P
Thallium	ug/L	75 - 125	1060		20.0	U	1000	106		P
Vanadium	ug/L	75 - 125	157		18.5	J	150	93		P
Zinc	ug/L	75 - 125	124		17.3	J	100	107		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2458

contract: CAMP02 **lab code:** ACE

matrix: Water **sample id:** Q2463-01 **client id:** TW-WTS-11MSD

Percent Solids for Sample: NA **Spiked ID:** Q2463-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	5280		3660		1000	162	N	P
Antimony	ug/L	75 - 125	420		25.0	U	400	105		P
Arsenic	ug/L	75 - 125	404		10.0	U	400	101		P
Barium	ug/L	75 - 125	123		36.1	J	100	87		P
Beryllium	ug/L	75 - 125	82.9		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	96.7		3.00	U	100	97		P
Calcium	ug/L	75 - 125	50000		49700		500	64		P
Chromium	ug/L	75 - 125	189		1.87	J	200	93		P
Cobalt	ug/L	75 - 125	99.3		1.54	J	100	98		P
Copper	ug/L	75 - 125	168		21.7		150	98		P
Iron	ug/L	75 - 125	10800		9630		1500	77		P
Lead	ug/L	75 - 125	456		5.99	J	500	90		P
Magnesium	ug/L	75 - 125	2360		1450		1000	91		P
Manganese	ug/L	75 - 125	119		22.5		100	96		P
Mercury	ug/L	75 - 125	3.88		0.19	J	4.0	92		CV
Nickel	ug/L	75 - 125	259		15.0	J	250	98		P
Potassium	ug/L	75 - 125	232000		248000		5000	-324		P
Selenium	ug/L	75 - 125	1040		5.02	J	1000	104		P
Silver	ug/L	75 - 125	34.9		5.00	U	37.5	93		P
Sodium	ug/L	75 - 125	167000		172000		1500	-376		P
Thallium	ug/L	75 - 125	1040		20.0	U	1000	104		P
Vanadium	ug/L	75 - 125	155		18.5	J	150	91		P
Zinc	ug/L	75 - 125	122		17.3	J	100	104		P

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2458

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2469-01 **client id:** WC-1MS

Percent Solids for Sample: 85.4 **Spiked ID:** Q2469-01MS **Percent Solids for Spike Sample:** 85.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.61		0.27		0.33	103		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2458

contract: CAMP02 **lab code:** ACE

matrix: Solid **sample id:** Q2469-01 **client id:** WC-1MSD

Percent Solids for Sample: 85.4 **Spiked ID:** Q2469-01MSD **Percent Solids for Spike Sample:** 85.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.54		0.27		0.29	93		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Level:** LOW **Client ID:** TP-68A

Sample ID: Q2458-03 **Spiked ID:** Q2458-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	40.0		2.46	U	39.4	102		P
Copper	mg/Kg	75 - 125	56.9		45.1		14.8	80		P
Potassium	mg/Kg	75 - 125	981		521		490	94		P
Vanadium	mg/Kg	75 - 125	31.6		20.1		14.8	77		P
Zinc	mg/Kg	75 - 125	22.1		12.9		9.80	93		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Water **Level:** LOW **Client ID:** TW-WTS-11A

Sample ID: Q2463-01 **Spiked ID:** Q2463-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	4600		3660		10000	9	N	P
Silver	ug/L	75 - 125	21.2		5.00	U	37.5	56	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2458-03 **Client ID:** TP-68DUP

Percent Solids for Sample: 92.3 **Duplicate ID** Q2458-03DUP **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4030		4390		9		P
Antimony	mg/Kg	20	2.46	U	2.56	U			P
Arsenic	mg/Kg	20	1.61		1.73		7		P
Barium	mg/Kg	20	7.39		8.01		8		P
Beryllium	mg/Kg	20	0.13	J	0.13	J	5		P
Cadmium	mg/Kg	20	0.30	U	0.31	U			P
Calcium	mg/Kg	20	1990		2250		12		P
Chromium	mg/Kg	20	9.01		10.5		16		P
Cobalt	mg/Kg	20	4.51		5.12		13		P
Copper	mg/Kg	20	45.1		50.0		10		P
Iron	mg/Kg	20	9290		10200		9		P
Lead	mg/Kg	20	5.32		5.40		1		P
Magnesium	mg/Kg	20	2200		2480		12		P
Manganese	mg/Kg	20	65.0		72.3		11		P
Nickel	mg/Kg	20	9.84		11.1		12		P
Potassium	mg/Kg	20	521		590		12		P
Selenium	mg/Kg	20	2.38		2.62		10		P
Silver	mg/Kg	20	0.37	J	0.41	J	10		P
Sodium	mg/Kg	20	582		653		11		P
Thallium	mg/Kg	20	1.97	U	2.04	U			P
Vanadium	mg/Kg	20	20.1		23.7		16		P
Zinc	mg/Kg	20	12.9		14.2		10		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: CDM Smith **Level:** LOW **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2458-03MS **Client ID:** TP-68MSD

Percent Solids for Sample: 92.3 **Duplicate ID** Q2458-03MSD **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5750		6080		6		P
Antimony	mg/Kg	20	16.5		15.4		7		P
Arsenic	mg/Kg	20	37.4		35.7		5		P
Barium	mg/Kg	20	16.9		17.0		1		P
Beryllium	mg/Kg	20	7.92		7.42		7		P
Cadmium	mg/Kg	20	8.79		8.21		7		P
Calcium	mg/Kg	20	2950		3030		3		P
Chromium	mg/Kg	20	28.0		27.2		3		P
Cobalt	mg/Kg	20	15.3		15.4		1		P
Copper	mg/Kg	20	63.7		92.9		37	*	P
Iron	mg/Kg	20	10700		12000		11		P
Lead	mg/Kg	20	50.1		48.4		3		P
Magnesium	mg/Kg	20	2760		3100		12		P
Manganese	mg/Kg	20	84.1		91.0		8		P
Nickel	mg/Kg	20	36.2		36.8		2		P
Potassium	mg/Kg	20	1130		1180		4		P
Selenium	mg/Kg	20	91.6		87.8		4		P
Silver	mg/Kg	20	3.69		3.63		2		P
Sodium	mg/Kg	20	953		1030		8		P
Thallium	mg/Kg	20	97.8		90.1		8		P
Vanadium	mg/Kg	20	40.6		40.7		0		P
Zinc	mg/Kg	20	25.2		28.9		14		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: CDM Smith **Level:** LOW **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2463-01 **Client ID:** TW-WTS-11DUP

Percent Solids for Sample: NA **Duplicate ID** Q2463-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	3660		3690		1		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	36.1	J	35.1	J	3		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	49700		49600		0		P
Chromium	ug/L	20	1.87	J	1.97	J	5		P
Cobalt	ug/L	20	1.54	J	1.45	J	6		P
Copper	ug/L	20	21.7		21.7		0		P
Iron	ug/L	20	9630		9600		0		P
Lead	ug/L	20	5.99	J	6.69		11		P
Magnesium	ug/L	20	1450		1440		1		P
Manganese	ug/L	20	22.5		22.5		0		P
Mercury	ug/L	20	0.19	J	0.18	J	3		CV
Nickel	ug/L	20	15.0	J	15.3	J	2		P
Potassium	ug/L	20	248000		242000		2		P
Selenium	ug/L	20	5.02	J	5.01	J	0		P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	172000		171000		1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	18.5	J	17.8	J	4		P
Zinc	ug/L	20	17.3	J	17.3	J	0		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: CDM Smith **Level:** LOW **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2463-01MS **Client ID:** TW-WTS-11MSD

Percent Solids for Sample: NA **Duplicate ID** Q2463-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	4620		5280		13		P
Antimony	ug/L	20	425		420		1		P
Arsenic	ug/L	20	415		404		3		P
Barium	ug/L	20	122		123		1		P
Beryllium	ug/L	20	85.4		82.9		3		P
Cadmium	ug/L	20	97.4		96.7		1		P
Calcium	ug/L	20	50300		50000		1		P
Chromium	ug/L	20	192		189		2		P
Cobalt	ug/L	20	102		99.3		3		P
Copper	ug/L	20	171		168		2		P
Iron	ug/L	20	10800		10800		0		P
Lead	ug/L	20	466		456		2		P
Magnesium	ug/L	20	2320		2360		2		P
Manganese	ug/L	20	121		119		2		P
Mercury	ug/L	20	3.24		3.88		18		CV
Nickel	ug/L	20	264		259		2		P
Potassium	ug/L	20	244000		232000		5		P
Selenium	ug/L	20	1060		1040		2		P
Silver	ug/L	20	21.1		34.9		49	*	P
Sodium	ug/L	20	172000		167000		3		P
Thallium	ug/L	20	1060		1040		2		P
Vanadium	ug/L	20	157		155		1		P
Zinc	ug/L	20	124		122		2		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: CDM Smith **Level:** LOW **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2469-01 **Client ID:** WC-1DUP

Percent Solids for Sample: 85.4 **Duplicate ID** Q2469-01DUP **Percent Solids for Spike Sample:** 85.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.27		0.29		9		CV

"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: CDM Smith **Level:** LOW **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Matrix: Solid **Sample ID:** Q2469-01MS **Client ID:** WC-1MSD

Percent Solids for Sample: 85.4 **Duplicate ID** Q2469-01MSD **Percent Solids for Spike Sample:** 85.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.61		0.54		13		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168677BS							
Aluminum	ug/L	1000	925		92	80 - 120	P
Antimony	ug/L	400	405		101	80 - 120	P
Arsenic	ug/L	400	388		97	80 - 120	P
Barium	ug/L	100	88.3		88	80 - 120	P
Beryllium	ug/L	100	88.3		88	80 - 120	P
Cadmium	ug/L	100	95.4		95	80 - 120	P
Calcium	ug/L	500	464	J	93	80 - 120	P
Chromium	ug/L	200	187		94	80 - 120	P
Cobalt	ug/L	100	97.1		97	80 - 120	P
Copper	ug/L	150	151		101	80 - 120	P
Iron	ug/L	1500	1400		93	80 - 120	P
Lead	ug/L	500	469		94	80 - 120	P
Magnesium	ug/L	1000	909	J	91	80 - 120	P
Manganese	ug/L	100	97.8		98	80 - 120	P
Nickel	ug/L	250	245		98	80 - 120	P
Potassium	ug/L	5000	4660		93	80 - 120	P
Selenium	ug/L	1000	1010		101	80 - 120	P
Silver	ug/L	37.5	34.4		92	80 - 120	P
Sodium	ug/L	1500	1470		98	80 - 120	P
Thallium	ug/L	1000	1070		107	80 - 120	P
Vanadium	ug/L	150	137		91	80 - 120	P
Zinc	ug/L	100	97.5		98	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168678BS							
Aluminum	mg/Kg	100	91.6		92	80 - 120	P
Antimony	mg/Kg	40.0	40.4		101	80 - 120	P
Arsenic	mg/Kg	40.0	38.8		97	80 - 120	P
Barium	mg/Kg	10.0	8.61		86	80 - 120	P
Beryllium	mg/Kg	10.0	8.79		88	80 - 120	P
Cadmium	mg/Kg	10.0	9.53		95	80 - 120	P
Calcium	mg/Kg	50.0	45.9	J	92	80 - 120	P
Chromium	mg/Kg	20.0	18.9		94	80 - 120	P
Cobalt	mg/Kg	10.0	9.71		97	80 - 120	P
Copper	mg/Kg	15.0	15.0		100	80 - 120	P
Iron	mg/Kg	150	141		94	80 - 120	P
Lead	mg/Kg	50.0	46.7		93	80 - 120	P
Magnesium	mg/Kg	100	90.2	J	90	80 - 120	P
Manganese	mg/Kg	10.0	9.61		96	80 - 120	P
Nickel	mg/Kg	25.0	24.4		98	80 - 120	P
Potassium	mg/Kg	500	472		94	80 - 120	P
Selenium	mg/Kg	100	100		100	80 - 120	P
Silver	mg/Kg	3.8	3.49		92	80 - 120	P
Sodium	mg/Kg	150	149		99	80 - 120	P
Thallium	mg/Kg	100	104		104	80 - 120	P
Vanadium	mg/Kg	15.0	13.5		90	80 - 120	P
Zinc	mg/Kg	10.0	9.82		98	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168683BS							
Mercury	ug/L	4.0	3.97		99	80 - 120	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168688BS							
Mercury	mg/Kg	0.25	0.23		90	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-68L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136371 **Lab Sample ID :** Q2458-03L **SDG No.:** Q2458

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	4030		4030		0		P
Antimony	2.46	U	12.3	U			P
Arsenic	1.61		1.43	J	11		P
Barium	7.39		24.6	U	100.0		P
Beryllium	0.13	J	1.48	U	100.0		P
Cadmium	0.30	U	1.48	U			P
Calcium	1990		2010		1		P
Chromium	9.01		8.88		1		P
Cobalt	4.51		4.03	J	11		P
Copper	45.1		46.5		3		P
Iron	9290		8950		4		P
Lead	5.32		5.02		6		P
Magnesium	2200		2200		0		P
Manganese	65.0		65.3		1		P
Nickel	9.84		9.21	J	6		P
Potassium	521		502		4		P
Selenium	2.38		3.24	J	36		P
Silver	0.37	J	2.46	U	100.0		P
Sodium	582		563		3		P
Thallium	1.97	U	9.85	U			P
Vanadium	20.1		19.9		1		P
Zinc	12.9		12.4		4		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TW-WTS-11L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136371 **Lab Sample ID :** Q2463-01L **SDG No.:** Q2458

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
Aluminum	3660		3390		7		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	36.1	J	250	U	100.0		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	49700		47100		5		P
Chromium	1.87	J	25.0	U	100.0		P
Cobalt	1.54	J	75.0	U	100.0		P
Copper	21.7		19.0	J	12		P
Iron	9630		8160		15		P
Lead	5.99	J	30.0	U	100.0		P
Magnesium	1450		1320	J	9		P
Manganese	22.5		17.9	J	21		P
Mercury	0.19	J	0.40	J	110		CV
Nickel	15.0	J	11.5	J	23		P
Potassium	248000		192000		23		P
Selenium	5.02	J	50.0	U	100.0		P
Silver	5.00	U	25.0	U			P
Sodium	172000		141000		18		P
Thallium	20.0	U	100	U			P
Vanadium	18.5	J	100	U	100.0		P
Zinc	17.3	J	100	U	100.0		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-1L

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **Lb No.:** lb136352 **Lab Sample ID :** Q2469-01L **SDG No.:** Q2458

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.27		0.17		37		CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE

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
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
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
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	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
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168677**						
PB168677BL	PB168677BL	MB	WATER	07/01/2025	50.0	25.0	
PB168677BS	PB168677BS	LCS	WATER	07/01/2025	50.0	25.0	
Q2458-10	FB-06272025	SAM	WATER	07/01/2025	50.0	25.0	
Q2463-01DUP	TW-WTS-11DUP	DUP	WATER	07/01/2025	50.0	25.0	
Q2463-01MS	TW-WTS-11MS	MS	WATER	07/01/2025	50.0	25.0	
Q2463-01MSD	TW-WTS-11MSD	MSD	WATER	07/01/2025	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168678**						
PB168678BL	PB168678BL	MB	SOLID	07/01/2025	2.00	100.0	100.00
PB168678BS	PB168678BS	LCS	SOLID	07/01/2025	2.00	100.0	100.00
Q2458-01	TP-76	SAM	SOLID	07/01/2025	2.18	100.0	90.60
Q2458-02	TP-55	SAM	SOLID	07/01/2025	2.47	100.0	91.40
Q2458-03	TP-68	SAM	SOLID	07/01/2025	2.20	100.0	92.30
Q2458-03DUP	TP-68DUP	DUP	SOLID	07/01/2025	2.12	100.0	92.30
Q2458-03MS	TP-68MS	MS	SOLID	07/01/2025	2.27	100.0	92.30
Q2458-03MSD	TP-68MSD	MSD	SOLID	07/01/2025	2.41	100.0	92.30
Q2458-04	TP-67	SAM	SOLID	07/01/2025	2.21	100.0	89.70
Q2458-05	TP-66	SAM	SOLID	07/01/2025	2.10	100.0	88.30
Q2458-06	TP-60	SAM	SOLID	07/01/2025	2.26	100.0	92.50
Q2458-07	TP-62	SAM	SOLID	07/01/2025	2.14	100.0	91.10
Q2458-08	TP-63	SAM	SOLID	07/01/2025	2.20	100.0	86.40
Q2458-09	TP-59	SAM	SOLID	07/01/2025	2.26	100.0	76.60

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168683**						
PB168683BL	PB168683BL	MB	WATER	07/01/2025	30.0	30.0	
PB168683BS	PB168683BS	LCS	WATER	07/01/2025	30.0	30.0	
Q2458-10	FB-06272025	SAM	WATER	07/01/2025	30.0	30.0	
Q2463-01DUP	TW-WTS-11DUP	DUP	WATER	07/01/2025	30.0	30.0	
Q2463-01MS	TW-WTS-11MS	MS	WATER	07/01/2025	30.0	30.0	
Q2463-01MSD	TW-WTS-11MSD	MSD	WATER	07/01/2025	30.0	30.0	

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Fax : 908 789 8922

Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2458

Contract: CAMP02 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168688**						
PB168688BL	PB168688BL	MB	SOLID	07/01/2025	0.54	35.0	100.00
PB168688BS	PB168688BS	LCS	SOLID	07/01/2025	0.56	35.0	100.00
Q2458-01	TP-76	SAM	SOLID	07/01/2025	0.56	35.0	90.60
Q2458-02	TP-55	SAM	SOLID	07/01/2025	0.56	35.0	91.40
Q2458-03	TP-68	SAM	SOLID	07/01/2025	0.58	35.0	92.30
Q2458-04	TP-67	SAM	SOLID	07/01/2025	0.55	35.0	89.70
Q2458-05	TP-66	SAM	SOLID	07/01/2025	0.56	35.0	88.30
Q2458-06	TP-60	SAM	SOLID	07/01/2025	0.57	35.0	92.50
Q2458-07	TP-62	SAM	SOLID	07/01/2025	0.55	35.0	91.10
Q2458-08	TP-63	SAM	SOLID	07/01/2025	0.53	35.0	86.40
Q2458-09	TP-59	SAM	SOLID	07/01/2025	0.52	35.0	76.60
Q2469-01DUP	WC-1DUP	DUP	SOLID	07/01/2025	0.51	35.0	85.40
Q2469-01MS	WC-1MS	MS	SOLID	07/01/2025	0.50	35.0	85.40
Q2469-01MSD	WC-1MSD	MSD	SOLID	07/01/2025	0.57	35.0	85.40

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2458

Instrument id number: **Method:** **Run number:** LB136337

Start date: 07/01/2025 **End date:** 07/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1119	HG
S0.2	S0.2	1	1123	HG
S2.5	S2.5	1	1125	HG
S5	S5	1	1128	HG
S7.5	S7.5	1	1130	HG
S10	S10	1	1132	HG
ICV13	ICV13	1	1143	HG
ICB13	ICB13	1	1145	HG
CCV40	CCV40	1	1147	HG
CCB40	CCB40	1	1149	HG
CRA	CRA	1	1152	HG
CCV41	CCV41	1	1217	HG
CCB41	CCB41	1	1219	HG
PB168683BL	PB168683BL	1	1231	HG
PB168683BS	PB168683BS	1	1233	HG
Q2458-10	FB-06272025	1	1235	HG
Q2463-01DUP	TW-WTS-11DUP	1	1240	HG
Q2463-01MS	TW-WTS-11MS	1	1242	HG
CCV42	CCV42	1	1247	HG
CCB42	CCB42	1	1249	HG
Q2463-01MSD	TW-WTS-11MSD	1	1252	HG
Q2463-01L	TW-WTS-11L	5	1303	HG
CCV43	CCV43	1	1310	HG
CCB43	CCB43	1	1313	HG

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2458

Instrument id number: **Method:** **Run number:** LB136352

Start date: 07/02/2025 **End date:** 07/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1009	HG
S0.2	S0.2	1	1011	HG
S2.5	S2.5	1	1013	HG
S5	S5	1	1016	HG
S7.5	S7.5	1	1018	HG
S10	S10	1	1020	HG
ICV14	ICV14	1	1033	HG
ICB14	ICB14	1	1038	HG
CCV44	CCV44	1	1044	HG
CCB44	CCB44	1	1049	HG
CRA	CRA	1	1054	HG
PB168688BL	PB168688BL	1	1112	HG
PB168688BS	PB168688BS	1	1114	HG
Q2458-01	TP-76	1	1123	HG
Q2458-02	TP-55	1	1125	HG
CCV45	CCV45	1	1135	HG
CCB45	CCB45	1	1140	HG
Q2458-03	TP-68	1	1142	HG
Q2458-04	TP-67	1	1144	HG
Q2458-05	TP-66	1	1147	HG
Q2458-06	TP-60	1	1149	HG
Q2458-07	TP-62	1	1151	HG
Q2458-08	TP-63	1	1154	HG
Q2458-09	TP-59	1	1156	HG
CCV46	CCV46	1	1237	HG
CCB46	CCB46	1	1242	HG
Q2469-01DUP	WC-1DUP	1	1247	HG
Q2469-01MS	WC-1MS	1	1253	HG
Q2469-01MSD	WC-1MSD	1	1255	HG
Q2469-01L	WC-1L	5	1258	HG
CCV47	CCV47	1	1318	HG
CCB47	CCB47	1	1323	HG

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2458

Instrument id number: **Method:** **Run number:** LB136371

Start date: 07/03/2025 **End date:** 07/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1131	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1135	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1139	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1143	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1213	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1221	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1226	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1230	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1242	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1323	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1327	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2463-01DUP	TW-WTS-11DUP	1	1354	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2463-01L	TW-WTS-11L	5	1359	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2463-01A	TW-WTS-11A	1	1413	Ag,Al
Q2458-01	TP-76	1	1417	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1425	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1455	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-10	FB-06272025	1	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-02	TP-55	1	1512	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-04	TP-67	1	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-05	TP-66	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-06	TP-60	1	1524	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-07	TP-62	1	1529	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2463-01MS	TW-WTS-11MS	1	1533	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2463-01MSD	TW-WTS-11MSD	1	1537	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1608	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168678BL	PB168678BL	1	1612	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168677BL	PB168677BL	1	1620	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168677BS	PB168677BS	1	1626	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168678BS	PB168678BS	1	1630	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-03	TP-68	1	1634	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-03DUP	TP-68DUP	1	1638	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-03L	TP-68L	5	1642	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-03MS	TP-68MS	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-03MSD	TP-68MSD	1	1650	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-03A	TP-68A	1	1654	Cu,K,Sb,V,Zn
CCV04	CCV04	1	1658	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: ACE **Sdg no.:** Q2458

Instrument id number: **Method:** **Run number:** LB136371

Start date: 07/03/2025 **End date:** 07/03/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB04	CCB04	1	1702	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-08	TP-63	1	1710	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2458-09	TP-59	1	1714	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1732	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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. Q2458
COC Number 2047524

13
13.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ 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. TCL VOC
2. TCL SVOC
3. PCB'S
4. TAL METALS
5. PESTICIDES
6. HERBICIDES
7. DRO/GRO
8.
9.

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.	TP-70	S		X	6/26/25	1115	6	X	X	X	X	X	X	X			E
2.	TP-65	S		X	6/26/25	1200	6	X	X	X	X	X	X	X			E
3.	TP-68	S		X	6/27/25	0745	6	X	X	X	X	X	X	X			E
4.	TP-67	S		X	6/27/25	0805	6	X	X	X	X	X	X	X			E
5.	TP-66	S		X	6/27/25	0835	6	X	X	X	X	X	X	X			E
6.	TP-60	S		X	6/27/25	0910	6	X	X	X	X	X	X	X			E
7.	TP-62	S		X	6/27/25	1005	6	X	X	X	X	X	X	X			E
8.	TP-63	S		X	6/27/25	1055	6	X	X	X	X	X	X	X			E
9.	TP-54	S		X	6/27/25	1205	6	X	X	X	X	X	X	X			E
10.	FB-06272025	GW		X	6/27/25	1300	9	X	X	X	X	X	X	X			E, A, B

PRESERVATIVES: ← 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.	6/27/25/1600	1. 1600 6-27-25
2.		2.
3.	6-27-25 1755	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
Comments:

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: Encinas, Marcie (Puskarik) <encinasma@cdmsmith.com>
Sent: Monday, June 30, 2025 12:44 PM
Subject: FW: sample id and sample not mentioned on COC

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Thank you for reaching out - Please see below.

Would it be possible to also have excel results emailed with results compared to the current NJDEP SRS?

Marcie

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 30, 2025 10:24 AM
To: Encinas, Marcie (Puskarik) <encinasma@cdmsmith.com>
Cc: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: sample id and sample not mentioned on COC

You don't often get email from deepak.parmar@alliancetg.com. Learn why this is important

Good morning,

Samples received with 6/27/2025 shipment has below discrepancies

issue 1# sample (2) TP-65 mentioned on COC, however sample received as TP-55 let us know which sample ID to use ? TP-55 is the correct label for the samples.

Issue2# Lab receives two TB water samples but not mentioned on COC. Lab would like to know how to proceed with analysis ? I believe those are temperature blanks, which do not require analysis. We are only analyzing trip blanks if the same also includes aqueous samples.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900

Address: 284 Sheffield St, Ste 1,
Mountainside, NJ 07092

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2458 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 6/27/2025 4:22:00 PM
Project Name : South River WM Replacem
Receive DateTime : 6/27/2025 ~~12:00:00 AM~~ 16:55 PM
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2458-01	TP-76	Solid	06/26/2025	11:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-02	TP-~~65~~ 55	Solid	06/26/2025	12:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-03	TP-68	Solid	06/27/2025	07:~~15~~ 25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-04	TP-67	Solid	06/27/2025	08:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-05	TP-66	Solid	06/27/2025	08:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-06	TP-60	Solid	06/27/2025	09:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-07	TP-62	Solid	06/27/2025	10:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-08	TP-63	Solid	06/27/2025	10:55					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2458 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 6/27/2025 4:22:00 PM
Project Name : South River WM Replacem
Receive DateTime : 6/27/2025 ~~12:00:00 AM~~ 16:55 PM
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-09	TP-59	Solid	06/27/2025	12:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-10	FB-06272025	Water	06/27/2025	13:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 6/30/25 0900

Received By :
Date / Time : 06/30/25 9:00
Storage Area : VOA Refridgerator Room

SAMPLES RECEIVED ON 6/27/25 @ 1655
SAMPLES PLACED IN SM-REF-2

Ref #6
F2. 2
Ref #4